Resistoflex® offers solutions for resolving permeation issues

Resistoflex® Hose Manual
**Inner core:** White seamless convoluted Teflon® PTFE

**Reinforcement:** Stainless steel wire wrap with EPDM cover

**Temperature:** 0°F to 150°F

**Construction**
Unique and patented design incorporating a seamless, helically formed convoluted Teflon® PTFE tube reinforced with a stainless steel wire wrap, tire cord, and EPDM rubber cover with crimp style fittings.

**Benefits**
- Ultra Flexible - Twister requires a minimum amount of force to flex, making this an excellent choice for handling and reducing strain on adjoining equipment
- 1:1 nominal diameter to bend radius  
  – A 2" hose has a 2" bend radius!
- Virtually kink-proof design
- Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions for easy cleaning
- Tough EPDM cover provides durability and easy handling

**Applications**
Versatile design used where a very flexible connection is needed to transfer corrosive, or hazardous media. Twister is commonly selected for rail and truck loading / unloading stations and transfer panels.

**Fittings:** Crimped

![Crimped Fittings](image)

**PRESSURE RATINGS**

![Pressure Ratings Chart](image)

**VACUUM RATINGS**

![Vacuum Ratings Chart](image)

**Table:**

<table>
<thead>
<tr>
<th>Size</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Min. Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
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<th>Weight Lbs / Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
</tr>
<tr>
<td>1/2</td>
<td>15</td>
<td>0.510</td>
<td>13</td>
<td>0.970</td>
<td>24.6</td>
<td>0.500</td>
</tr>
<tr>
<td>3/4</td>
<td>20</td>
<td>0.760</td>
<td>19.3</td>
<td>1.250</td>
<td>31.7</td>
<td>0.750</td>
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<td>1</td>
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<td>1.560</td>
<td>39.6</td>
<td>1.000</td>
</tr>
<tr>
<td>1-1/2</td>
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<td>2.240</td>
<td>56.9</td>
<td>1.500</td>
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<td>51.4</td>
<td>2.670</td>
<td>67.8</td>
<td>2.000</td>
</tr>
</tbody>
</table>

**Note:** For assemblies, pressure ratings of fittings may be less than for the hose.

**Vacuum ratings** based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.

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**www.cranecpe.com**

*Crane ChemPharma & Energy*
**Inner core:** White seamless convoluted Teflon® PTFE

**Reinforcement:** Stainless steel wire wrap with EPDM cover

**Temperature:** 0°F to 150°F

**Construction**
Unique and patented design incorporating a seamless, helically formed convoluted Teflon® PTFE tube reinforced with a stainless steel wire wrap, tire cord, and EPDM rubber cover with flare thru fittings.

**Benefits**
- Ultra Flexible - Twister requires a minimum amount of force to flex, making this an excellent choice for handling and reducing strain on adjoining equipment
- 1:1 nominal diameter to bend radius – A 2” hose has a 2” bend radius!
- Virtually kink-proof design
- Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions for easy cleaning
- Tough EPDM cover provides durability and easy handling

**Applications**
Versatile design used where a very flexible connection is needed to transfer corrosive, or hazardous media. Twister is commonly selected for rail and truck loading / unloading stations and transfer panels.

**Fittings:** Flare Thru

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<tr>
<td>Inch</td>
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<td>Inch MM</td>
<td>PSIG BAR</td>
<td>PSIG BAR</td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td>15</td>
<td>0.510 13</td>
<td>0.970 24.6</td>
<td>0.500 12.7</td>
<td>785 54.1</td>
<td>3140 216.5</td>
</tr>
<tr>
<td>3/4</td>
<td>20</td>
<td>0.760 19.3</td>
<td>1.250 31.7</td>
<td>0.750 19</td>
<td>570 39.3</td>
<td>2280 157.2</td>
</tr>
<tr>
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<td>295 20.3</td>
<td>1180 81.4</td>
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<td>2.000 50.8</td>
<td>275 19</td>
<td>1100 75.8</td>
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**Pressures:**
- **Maximum Working Pressure - PSIG**
- **Operating Temperature (F)**

**Vacuum Ratings**
- Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.

**Flanged**
- Cam & Groove
- Sanitary

(consult factory for availability)
**CRC - B Twister® EPDM Rubber Covered**

**Inner core:** Antistatic seamless convoluted Teflon® PTFE

**Reinforcement:** Stainless steel wire wrap with EPDM Cover

**Temperature:** 0°F to 150°F

**Construction**
- Unique and patented design incorporating a seamless, helically formed convoluted Teflon® PTFE tube reinforced with a stainless steel wire wrap and EPDM rubber cover, tire cord, and crimp style fittings.

**Benefits**
- Ultra flexible - Twister requires a minimum amount of force to flex, making this an excellent choice for handling and reducing strain on adjoining equipment
- 1:1 nominal diameter to bend radius - A 2" hose has a 2" bend radius!
- Virtually kink-proof design
- Antistatic Teflon® PTFE liner provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions for easy cleaning
- Tough EPDM cover provides durability and easy handling

**Applications**
- Versatile design used where a very flexible connection is needed to transfer corrosive, or hazardous media. Twister is commonly selected for rail and truck loading/unloading stations and transfer panels.

**Fittings:** Crimped

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<td>2000</td>
<td>50.8</td>
<td>275</td>
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**Inner core:** Antistatic Seamless Convoluted **Teflon**® PTFE

**Reinforcement:** Stainless Steel Wire Wrap with EPDM Cover

**Temperature:** 0 °F to 150 °F

**Construction**
Unique and patented design incorporating a seamless, helically formed convoluted **Teflon**® PTFE tube reinforced with a Stainless Steel Wire Wrap, tire cord, and EPDM rubber cover and flare thru fittings.

**Benefits**
- Ultra Flexible - Twister requires a minimum amount of force to flex, making this an excellent choice for handling and reducing strain on adjoining equipment
- 1:1 Nominal Diameter to Bend Radius – A 2" Hose has a 2" Bend Radius!
- Virtually kink-proof design
- Antistatic **Teflon**® PTFE liner provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions for easy cleaning
- Tough EPDM cover provides durability and easy handling

**Applications**
Versatile design used where a very flexible connection is needed to transfer corrosive, or hazardous media. Twister is commonly selected for rail and truck loading / unloading stations and transfer panels.

**Fittings:**
- Flare Thru
- Flanged
- Cam & Groove
- Sanitary

(consult factory for availability)

### PRESSURE RATINGS

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<tr>
<th>Size</th>
<th>Hose I.D.</th>
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<td>275</td>
<td>19</td>
<td>1100</td>
</tr>
</tbody>
</table>

**VACUUM RATINGS**

<table>
<thead>
<tr>
<th>MAXIMUM VACUUM (inHg)</th>
<th>OPERATING TEMPERATURE (F)</th>
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<tr>
<td>29.9</td>
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<tr>
<td>25</td>
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</tbody>
</table>

**NOTE:** For assemblies, pressure ratings of fittings may be less than for the hose.
CB–W Convoluted Stainless Steel Braided

Inner core: Seamless convoluted white Teflon® PTFE
Reinforcement: 316 stainless steel braid
Temperature: -20 °F to 350 °F

Construction
Seamless helically formed convoluted Teflon® PTFE tube reinforced with 316 high tensile stainless steel wire braid and Crimp Style fittings.

Benefits
• Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
• Open pitch, helical convolutions allow for smooth product flow and easy cleaning
• One product rated for both medium pressure and full vacuum applications
• Wide variety of crimp style end fittings in various metallurgies
• Tighter bend radii compared to smooth bore hose styles

Applications
Versatile design used where light in weight and very flexible connections are needed to transfer corrosive, hazardous or other media. Wide variety of crimp style fittings allow for use in many types of applications and industries, including chemical processing, pharmaceuticals, corn processing, food and beverage, flavors and fragrances and others.

Fittings: Crimped

<table>
<thead>
<tr>
<th>Nominal Size</th>
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<td>MM</td>
<td>Inch</td>
</tr>
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<td>19.3</td>
<td>1.048</td>
<td>26.6</td>
<td>2.75</td>
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<tr>
<td>1</td>
<td>25</td>
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<td>26</td>
<td>1.354</td>
<td>34.4</td>
<td>4</td>
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<tr>
<td>1-1/2</td>
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<td>1.525</td>
<td>38.7</td>
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<tr>
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<td>100</td>
<td>5.000</td>
<td>127.0</td>
<td>16</td>
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</tbody>
</table>

Note: Hose assembly pressure ratings may be limited by the fittings and options.

www.cranecpe.com
**CBF–W Convoluted Stainless Braided**

- **Inner core:** Seamless convoluted white Teflon® PTFE
- **Reinforcement:** 316 stainless steel braid
- **Temperature:** -20 °F to 350 °F

**Construction**
Seamless helically formed convoluted Teflon® PTFE tube reinforced with 316 high tensile stainless steel wire braid and flare thru fittings.

**Benefits**
In addition to the benefits of our CB Style
- Flare thru system allows Teflon® PTFE protection of all wetted surfaces, eliminating metal corrosion and process contamination

**Applications**
In addition to the applications where a crimp style CB hose may be selected, CBF is suitable for chemical, pharmaceutical, food and flavoring applications requiring an extremely flexible hose with no metal exposed to the media.

**Fittings:** Flare Thru

---

### PRESSURE RATINGS

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<td>500</td>
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<td>1270</td>
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<td>2.64</td>
</tr>
</tbody>
</table>

Note: Hose assembly pressure ratings may be limited by the fittings.
Note: Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.

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Note: * 1-1/2” and 2” flare thru assemblies with sanitary fittings have reduced nominal size to ensure ID alignment with SS sanitary tubing.
**CWB–W Convoluted Stainless Steel Braided**

**Inner core:** Seamless convoluted white Teflon® PTFE

**Reinforcement:** 316 stainless steel braid

**Temperature:** -20 °F to 350 °F

**Construction**

Seamless helically formed convoluted Teflon® PTFE tube reinforced with 316 high tensile stainless steel wire braid and Crimp Style fittings.

**Benefits**

- Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions allow for smooth product flow and easy cleaning
- One product rated for both medium pressure and full vacuum applications
- Wide variety of crimp style end fittings in various metallurgies
- Wire wrap provides improved crush resistance, kink resistance, and bend radius
- Tighter bend radii compared to smooth bore hose styles

**Applications**

Versatile design used where light in weight and very flexible connections are needed to transfer corrosive, hazardous or other media. Wide variety of crimp style fittings allow for use in many types of applications and industries, including chemical processing, pharmaceuticals, corn processing, food and beverage, flavors and fragrances and others.

**Fittings:** Crimped

- Threaded
- Flanged
- Cam & Groove
- Sanitary
- Industrial
- Special

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### PRESSURE RATINGS

![Diagram of pressure ratings]

### VACUUM RATINGS

![Diagram of vacuum ratings]

**Note:** Hose assembly pressure ratings may be limited by the fittings. Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance. Vacuum wire improves this to a degree.

---

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**Inner core:** Seamless convoluted white Teflon® PTFE

**Reinforcement:** 316 stainless steel braid

**Temperature:** -20°F to 350°F

**Construction**
Seamless helically formed convoluted Teflon® PTFE tube reinforced with 316 high tensile stainless steel wire braid and flare thru fittings. Outer convolutes are wire wrapped.

**Benefits**
In addition to the benefits of our CB Style
- Flare thru system allows Teflon® PTFE protection of all wetted surfaces, eliminating metal corrosion and process contamination
- Wire wrap provides improved crush resistance, kink resistance, and bend radius

**Applications**
In addition to the applications where a crimp style CB hose may be selected, CBF is suitable for chemical, pharmaceutical, food and flavoring applications requiring an extremely flexible hose with no metal exposed to the media.

**Fittings:** Flare Thru

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**Pressure Ratings**

![Pressure Ratings Graph]

**Vacuum Ratings**

![Vacuum Ratings Graph]

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**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Burst Pressure at 70°F (21°C)** | **Weight Lbs / Feet**
---|---|---|---|---|---|---
1/2 | 0.510 | 0.748 | 0.5 | 12.7 | 500 | 2000 | 137.9 | .20
3/4 | 0.760 | 1.048 | 0.75 | 19.1 | 500 | 2000 | 137.9 | .30
1 | 1.025 | 1.354 | 1.0 | 25.4 | 500 | 2000 | 137.9 | .48
1-1/2 | 1.525 | 2.034 | 1.5 | 38.3 | 350 | 1400 | 96.5 | .82
2 | 2.025 | 2.646 | 2 | 50.8 | 250 | 1000 | 68.9 | 1.14
3 | 2.952 | 3.702 | 3 | 76.2 | 175 | 700 | 48.4 | 1.26
4 | 3.937 | 5.000 | 4 | 101.6 | 150 | 600 | 41.2 | 2.64

Note: *1-1/2” and 2” flare thru assemblies with sanitary fittings have reduced nominal size to ensure ID alignment with SS sanitary tubing.
**CB–B Convoluted Stainless Braided**

**Inner core:** Seamless convoluted antistatic Teflon® PTFE

**Reinforcement:** 316 stainless steel braid

**Temperature:** -20 °F to 350 °F

### Construction

Seamless helically formed convoluted Teflon® PTFE tube reinforced with 316 high tensile stainless steel wire braid and Crimp Style fittings.

### Benefits

- Antistatic Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions allow for smooth product flow and easy cleaning
- One product rated for both medium pressure and full vacuum applications
- Wide variety of crimph style end fittings in various metallurgies
- Tighter bend radii compared to smooth bore hose styles

### Applications

Versatile design used where light in weight and very flexible connections are needed to transfer corrosive, hazardous or other media. Wide variety of crimph style fittings allow for use in many types of applications and industries, including chemical processing, pharmaceuticals, corn processing, food and beverage, flavors and fragrances and others.

### Fittings: Crimped

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<td>Special</td>
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### PRESSURE RATINGS

![Graph showing pressure ratings](image7.jpg)

### VACUUM RATINGS

![Graph showing vacuum ratings](image8.jpg)

**NOTE:** Hose assembly pressure ratings may be limited by the fittings and options.

### Table: Nominal Size Specifications

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs/ Feet</th>
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<td>1100</td>
<td>2.64</td>
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**NOTE:** Hose assembly pressure ratings may be limited by the fittings and options.
CBF–B Convoluted Stainless Braided

- **Inner core**: Seamless convoluted antistatic Teflon® PTFE
- **Reinforcement**: 316 stainless steel braid
- **Temperature**: -20°F to 350°F

**Construction**
Seamless helically formed convoluted Teflon® PTFE tube reinforced with 316 high tensile stainless steel wire braid and flare thru fittings.

**Benefits**
In addition to the benefits of our CB Style
- Flare thru system allows Teflon® PTFE protection of all wetted surfaces, eliminating metal corrosion and process contamination

**Applications**
In addition to the applications where a crimp style CB hose may be selected, CBF is suitable for chemical, pharmaceutical, food and flavoring applications requiring an extremely flexible hose with no metal exposed to the media.

**Fittings**: Flare Thru

---

**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Burst Pressure at 70°F (21°C)** | **Weight Lbs/Feet**
--- | --- | --- | --- | --- | --- | ---
1/2 | 15 | 0.510 | 13 | 0.748 | 19 | 2 | 50.8 | 500 | 34.5 | 2000 | 137.9 | 20
3/4 | 20 | 0.760 | 19.3 | 1.048 | 26.6 | 2.75 | 69.9 | 500 | 34.5 | 2000 | 137.9 | 30
1 | 25 | 1.025 | 26 | 1.354 | 34.4 | 4 | 101.6 | 500 | 34.5 | 2000 | 137.9 | 48
1-1/2 | 40 | 1.525 | 38.7 | 2.034 | 51.7 | 6 | 152.4 | 350 | 24.1 | 1400 | 96.5 | .82
2 | 50 | 2.025 | 51.4 | 2.464 | 62.6 | 7.5 | 190.5 | 250 | 17.2 | 1000 | 68.9 | 1.14
3 | 75 | 2.952 | 75 | 3.702 | 94.0 | 14 | 355.6 | 175 | 12.1 | 700 | 48.4 | 1.26
4 | 100 | 3.937 | 100 | 5.000 | 127 | 16 | 406.4 | 150 | 10.3 | 600 | 41.2 | 2.64

Note: * 1-1/2" and 2" flare thru assemblies with sanitary fittings have reduced nominal size to ensure ID alignment with SS sanitary tubing.
**CWB–B Convoluted Stainless Braided**

**Inner core:** Seamless convoluted antistatic Teflon® PTFE

**Reinforcement:** 316 stainless steel braid

**Temperature:** -20 °F to 350 °F

**Construction**

Seamless helically formed convoluted Teflon® PTFE tube reinforced with 316 high tensile stainless steel wire braid and Crimp Style fittings.

**Benefits**

- Antistatic Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions allow for smooth product flow and easy cleaning
- One product rated for both medium pressure and full vacuum applications
- Wide variety of crimp style end fittings in various metallurgies
- Wire wrap provides improved crush resistance, kink resistance, and bend radius
- Tighter bend radii compared to smooth bore hose styles

**Applications**

Versatile design used where light in weight and very flexible connections are needed to transfer corrosive, hazardous or other media. Wide variety of crimp style fittings allow for use in many types of applications and industries, including chemical processing, pharmaceuticals, corn processing, food and beverage, flavors and fragrances and others.

**Fittings:** Crimped

- Threaded
- Flanged
- Cam & Groove
- Sanitary
- Industrial
- Special

---

**PRESSURE RATINGS**

**VACUUM RATINGS**

**OPERATING TEMPERATURE (F)**

Note: Hose assembly pressure ratings may be limited by the fittings.

Note: Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance. Wire wrap improves this to a degree.

**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Burst Pressure at 70°F (21°C)** | **Weight Lbs / Feet**
--- | --- | --- | --- | --- | --- | ---
1/2" | 15 | 0.510 | 0.748 | 0.5 | 12.7 | 500 | 34.5 | 2000 | 137.9 | .20
3/4" | 20 | 0.760 | 1.048 | 0.75 | 19.1 | 500 | 34.5 | 2000 | 137.9 | .30
1" | 25 | 1.025 | 1.354 | 1 | 25.4 | 500 | 34.5 | 2000 | 137.9 | .48
1-1/2" | 40 | 1.525 | 2.034 | 1.5 | 38.1 | 350 | 24.1 | 1400 | 96.5 | .82
2" | 50 | 2.025 | 2.464 | 2 | 50.8 | 250 | 17.2 | 1000 | 68.9 | 1.14
3" | 75 | 2.952 | 3.702 | 3 | 76.2 | 175 | 12.1 | 700 | 48.4 | 1.26
4" | 100 | 3.937 | 5.000 | 4 | 101.6 | 150 | 10.3 | 600 | 41.2 | 2.64
**CWBF-B Convoluted Stainless Braided**

- **Inner core:** Seamless convoluted antistatic Teflon® PTFE
- **Reinforcement:** 316 stainless steel braid
- **Temperature:** -20 °F to 350 °F

- **Construction**
  - Seamless helically formed convoluted Teflon® PTFE tube reinforced with 316 high tensile stainless steel wire braid and flare thru fittings. Outer convolutes are wire wrapped.

- **Benefits**
  - Flare thru system allows Teflon® PTFE protection of all wetted surfaces, eliminating metal corrosion and process contamination
  - Wire wrap provides improved crush resistance, kink resistance, and bend radius

- **Applications**
  - In addition to the applications where a crimp style CB hose may be selected, CBF is suitable for chemical, pharmaceutical, food and flavoring applications requiring an extremely flexible hose with no metal exposed to the media.

- **Fittings:** Flare Thru

---

**PRESSURE RATINGS**

- **OPERATING TEMPERATURE (F)**
- **MAXIMUM WORKING PRESSURE - PSIG**
- **1/2”-1”**
- **1 1/2”**
- **2”**
- **3”**
- **4”**

**VACUUM RATINGS**

- **OPERATING TEMPERATURE (F)**
- **MAXIMUM VACUUM (Hg)**
- **1/2”**
- **3/4”**
- **1”**
- **1 1/2”**
- **2”**
- **3”**
- **4”**

---

**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Burst Pressure at 70°F (21°C)** | **Weight Lbs / Foot**
--- | --- | --- | --- | --- | --- | ---
1/2 | 15 | 0.510 | 0.748 | 0.5 | 12.7 | 500 | 34.5 | 2000 | 137.9 | 0.20
3/4 | 20 | 0.760 | 1.048 | 0.75 | 19.1 | 500 | 34.5 | 2000 | 137.9 | 0.30
1 | 25 | 1.025 | 1.354 | 1 | 25.4 | 500 | 34.5 | 2000 | 137.9 | 0.48
1 1/2” | 40 | 1.525 | 2.034 | 1.5 | 38.1 | 350 | 24.1 | 1400 | 96.5 | 0.82
2” | 50 | 2.025 | 2.644 | 2 | 50.8 | 250 | 17.2 | 1000 | 68.9 | 1.14
3 | 75 | 2.952 | 3.702 | 3 | 76.2 | 175 | 12.1 | 700 | 48.4 | 1.26
4 | 100 | 3.937 | 5.000 | 4 | 101.6 | 150 | 10.3 | 600 | 41.2 | 2.64

---

**Fitting Notes:**
- Hose assembly pressure ratings may be limited by the fittings.
- Vacuum ratings are based on testing done on straight assemblies.
- Bent assemblies may have reduced vacuum resistance. Vacuum wire improves this to a degree.

*Note: *1-1/2” and 2” flare thru assemblies with sanitary fittings have reduced nominal size to ensure ID aligned with SS sanitary tubing.
Inner core: Seamless convoluted white Teflon® PTFE

Reinforcement: Blue polypropylene, UV-stabilized braid

Temperature: -20 °F to 250 °F

Construction
Seamless helically formed convoluted Teflon® PTFE tube reinforced with polypropylene braid and crimped fittings.

Benefits
- Open-pitched, helical convolutions for easy cleaning
- Rated for both medium pressure and full vacuum applications
- Crush resistant and easy to flex
- Tighter bend radii than smooth bore alternatives
- Abrasion resistant braid
- Reduced risk of hand injury from metal braids

Applications
For pharmaceutical, chemical, food and beverage, and other applications requiring an extremely flexible, lightweight Teflon® PTFE hose assembly, with better abrasion resistance than metal braids.

Fittings: Crimped

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
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<th>Weight Lbs/ Foot</th>
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### CPBF–W Convoluted Polypropylene Braided

**Inner core:** Seamless white convoluted Teflon® PTFE

**Reinforcement:** Blue polypropylene, UV-stabilized braid

**Temperature:** -20 °F to 250 °F

#### Construction

Seamless helically formed convoluted Teflon® PTFE tube reinforced with polypropylene braid and flare thru fittings.

#### Benefits

In addition to the benefits of our CPB Style

- Flare thru system allows Teflon® PTFE protection of all wetted surfaces, eliminating metal corrosion and process contamination

#### Applications

For pharmaceutical, chemical, food and beverage, or any application requiring an extremely flexible, lightweight Teflon® PTFE hose with no metal exposure to the media.

#### Fitting: Flare Thru

### PRESSURE RATINGS

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
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<td>Inch</td>
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</table>

*Note: *1-1/2" and 2" flare thru assemblies with sanitary fittings have reduced nominal size to ensure ID alignment with SS sanitary tubing.

**Fitting:**

- Flare Thru
- Flared Flange
- Flared Cam & Groove
- Flared Sanitary
**CWPB-W Convoluted Polypropylene Braided**

**Inner core:** Seamless convoluted white Teflon® PTFE

**Reinforcement:** Blue polypropylene, UV-stabilized braid

**Temperature:** -20 °F to 250 °F

**Construction**
Seamless helically formed convoluted Teflon® PTFE tube reinforced with polypropylene braid and crimped fittings.

**Benefits**
- Open-pitched, helical convolutions for easy cleaning
- Rated for both medium pressure and full vacuum applications
- Crush resistant and easy to flex
- Tighter bend radii than smooth bore alternatives
- Abrasion resistant braid
- Reduced risk of hand injury from metal braids
- Wire wrap provides improved crush resistance, kink resistance, and bend radius

**Applications**
For pharmaceutical, chemical, food and beverage, and other applications requiring an extremely flexible, lightweight Teflon® PTFE hose assembly, with better abrasion resistance than metal braids.

**Fittings:** Crimped

### Pressure Ratings

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<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
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</table>
CWPBF–W Convoluted Polypropylene Braided

Inner core: Seamless white convoluted Teflon® PTFE
Reinforcement: Blue polypropylene, UV-stabilized braid
Temperature: -20°F to 250°F

■ Construction
Seamless helically formed convoluted Teflon® PTFE tube reinforced with polypropylene braid and flare thru fittings.

■ Benefits
In addition to the benefits of our CPB Style
- Flare thru system allows Teflon® PTFE protection of all wetted surfaces, eliminating metal corrosion and process contamination
- Wire wrap provides improved crush resistance, kink resistance, and bend radius

■ Applications
For pharmaceutical, chemical, food and beverage, or any application requiring an extremely flexible, lightweight Teflon® PTFE hose with no metal exposure to the media.

■ Fitting: Flare Thru

### PRESSURE RATINGS

<table>
<thead>
<tr>
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<td>MM</td>
<td>Inch MM PSIG BAR</td>
<td>PSIG BAR</td>
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<td>1900  131</td>
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Note: Hose assembly pressure ratings may be limited by the fittings. Note: Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.

Note: * 1-1/2" and 2" flare thru assemblies with sanitary fittings have reduced nominal size to ensure ID alignment with SS sanitary tubing.
**Inner core:** Seamless convoluted antistatic Teflon® PTFE

**Reinforcement:** Blue polypropylene, UV-stabilized braid

**Temperature:** -20 °F to 250 °F

- **Construction**
  Seamless helically formed convoluted Teflon® PTFE tube reinforced with polypropylene braid and crimped fittings.

- **Benefits**
  - Open-pitched, helical convolutions for easy cleaning
  - Rated for both medium pressure and full vacuum applications
  - Crush resistant and easy to flex
  - Tighter bend radii than smooth bore alternatives
  - Abrasion resistant braid
  - Reduced risk of hand injury from metal braids

- **Applications**
  For pharmaceutical, chemical, food and beverage, and other applications requiring an extremely flexible, lightweight Teflon® PTFE hose assembly, with better abrasion resistance than metal braids.

- **Fittings:** Crimped

---

### PRESSURE RATINGS

<table>
<thead>
<tr>
<th>Hose Size</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs/ Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>2</td>
<td>50.8 PSIG, 25 BAR</td>
<td>32.7 PSIG, 22 BAR</td>
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<td>69.9 PSIG, 37.5 BAR</td>
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<tr>
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<tr>
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<td>355.6 PSIG, 225 BAR</td>
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<td>406.4 PSIG, 312 BAR</td>
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---

### VACUUM RATINGS

Note: Hose assembly pressure ratings may be limited by the fittings. Note: Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.

---

**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Burst Pressure at 70°F (21°C)** | **Weight Lbs/ Foot**
---|---|---|---|---|---|---
1/2" | 0.510 | 0.855 | 2 | 50.8 | 32.7 | 0.10
3/4" | 0.760 | 1.160 | 2.75 | 69.9 | 29.3 | 0.18
1" | 1.025 | 1.440 | 4 | 101.6 | 25.8 | 0.26
1-1/2" | 1.525 | 2.155 | 6 | 152.4 | 22.4 | 0.26
2" | 2.025 | 2.560 | 7.5 | 190.5 | 19 | 0.46
3" | 2.952 | 3.922 | 14 | 355.6 | 15.5 | 0.52
4" | 3.937 | 5.221 | 16 | 406.4 | 6.9 | 1.12
### CPBF–B Convoluted Polypropylene Braided

**Inner core:** Seamless antistatic convoluted Teflon® PTFE

**Reinforcement:** Blue polypropylene, UV-stabilized braid

**Temperature:** -20 °F to 250 °F

**Construction**
Seamless helically formed convoluted antistatic Teflon® PTFE tube reinforced with polypropylene braid and flare thru fittings.

**Benefits**
In addition to the benefits of our CPB Style
- Flare thru system allows Teflon® PTFE protection of all wetted surfaces, eliminating metal corrosion and process contamination

**Applications**
For pharmaceutical, chemical, food and beverage, or any application requiring an extremely flexible, lightweight Teflon® PTFE hose with no metal exposure to the media.

**Fitting:** Flare Thru

### Pressure Ratings

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
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<td>MM</td>
<td>Inch</td>
<td>MM</td>
</tr>
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<td>3.937</td>
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<td>132.6</td>
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Note: * 1-1/2" and 2" flare thru assemblies with sanitary fittings have reduced nominal size to ensure ID alignment with SS sanitary tubing.

### Vacuum Ratings

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<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
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<th>Burst Pressure at 70°F (21°C)</th>
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<td>MM</td>
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<tr>
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<tr>
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</tr>
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<td>3.937</td>
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<td>5.221</td>
<td>132.6</td>
</tr>
</tbody>
</table>

Note: Hose assembly pressure ratings may be limited by the fittings.
Note: Vacuum ratings are based on testing done on straight assemblies.
Bent assemblies may have reduced vacuum resistance. Wire wrap improves this to a degree.
**CWPB–B Convoluted Polypropylene Braided**

**Inner core:** Seamless convoluted antistatic Teflon® PTFE

**Reinforcement:** Blue polypropylene, UV-stabilized braid

**Temperature:** -20°F to 250°F

### Construction
Seamless helically formed convoluted Teflon® PTFE tube reinforced with polypropylene braid and crimped fittings.

### Benefits
- Open-pitched, helical convolutions for easy cleaning
- Rated for both medium pressure and full vacuum applications
- Crush resistant and easy to flex
- Tighter bend radii than smooth bore alternatives
- Abrasion resistant braid
- Reduced risk of hand injury from metal braids

### Applications
For pharmaceutical, chemical, food and beverage, and other applications requiring an extremely flexible, lightweight Teflon® PTFE hose assembly, with better abrasion resistance than metal braids.

### Fittings: Crimped

![Diagram of CWPB–B Convoluted Polypropylene Braided hose with fittings](image)

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs/ Foot</th>
</tr>
</thead>
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<td>4</td>
<td>100</td>
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</table>

**Note:** Hose assembly pressure ratings may be limited by the fittings.

**Note:** Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.
**CWPBF–B Convoluted Polypropylene Braided**

**Inner core:** Seamless antistatic convoluted Teflon® PTFE

**Reinforcement:** Blue polypropylene, UV-stabilized braid

**Temperature:** -20°F to 250°F

**Construction**
Seamless helically formed convoluted Teflon® PTFE tube reinforced with polypropylene braid and flare thru fittings.

**Benefits**
In addition to the benefits of our CPB Style
- Flare thru system allows Teflon® PTFE protection of all wetted surfaces, eliminating metal corrosion and process contamination
- Wire wrap provides improved crush resistance, kink resistance, and bend radius

**Applications**
For pharmaceutical, chemical, food and beverage, or any application requiring an extremely flexible, lightweight Teflon® PTFE hose with no metal exposure to the media.

**Fitting:** Flare Thru

![Graphs of Pressure and Vacuum Ratings](image-url)

---

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
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<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
<td>MM</td>
<td>PSIG</td>
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<td>3.937</td>
<td>100</td>
<td>5.221</td>
<td>132.6</td>
<td>4</td>
</tr>
</tbody>
</table>

*Note: * 1-1/2” and 2” flare thru assemblies with sanitary fittings have reduced nominal size to ensure ID alignment with SS sanitary tubing.

---

**PRESSURE RATINGS**

**VACUUM RATINGS**

**Notes:**
- Hose assembly pressure ratings may be limited by the fittings.
- Vacuum ratings are based on testing done on straight assemblies.
- Bent assemblies may have reduced vacuum resistance. Wire wrap improves this to a degree.

---

Crane ChemPharma & Energy

www.cranecpe.com
**Inner core:** Seamless convoluted white Teflon® PTFE

**Reinforcement:** HASTELLOY® braid

**Temperature:**
- 1/2” and 1” sizes: -100 °F to 350 °F
- 1 1/2” and 2” sizes: -20 °F to 350 °F

**Construction**
Seamless helically formed convoluted Teflon® PTFE tube reinforced with HASTELLOY® wire braid and crimped fittings. A red tracer in the braid indicates HASTELLOY®.

**Benefits**
- Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helically convolutions allow for smooth product flow and easy cleaning
- One product rated for both medium pressure and full vacuum applications
- Wide variety of crimp style end fittings in various metallurgies
- Tighter bend radii compared to smooth bore hose styles

**Applications**
Versatile design used where light in weight and very flexible connections are needed to transfer corrosive, hazardous or other media. Wide variety of crimp style fittings allow for use in many types of applications and industries, including chemical processing, pharmaceuticals, corn processing, food and beverage, flavors and fragrances and others.

**Fittings:** Crimped

**Pressures Ratings**

**Vacuum Ratings**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs/Feet</th>
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</thead>
<tbody>
<tr>
<td>Inch DN Inch MM</td>
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<td>Inch MM</td>
<td>PSIG BAR</td>
<td>PSIG BAR</td>
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<td>51.4</td>
<td>2.464</td>
<td>62.6</td>
<td>7.5</td>
</tr>
</tbody>
</table>

HASTELLOY® is a registered trademark of Haynes International.

www.cranecpe.com
CHB–B Convoluted HASTELLOY® Braided

**Inner core:** Seamless convoluted antistatic Teflon® PTFE

**Reinforcement:** HASTELLOY® braid

**Temperature:** -20 °F to 350 °F

**Construction**
Seamless helically formed convoluted Teflon® PTFE tube reinforced with HASTELLOY® wire braid and crimped fittings. A red tracer in the braid indicates HASTELLOY®.

**Benefits**
- Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions allow for smooth product flow and easy cleaning
- One product rated for both medium pressure and full vacuum applications
- Wide variety of crimp style end fittings in various metallurgies
- Tighter bend radii compared to smooth bore hose styles

**Applications**
Versatile design used where light in weight and very flexible connections are needed to transfer corrosive, hazardous or other media. Wide variety of crimp style fittings allow for use in many types of applications and industries, including chemical processing, pharmaceuticals, corn processing, food and beverage, flavors and fragrances and others.

**Fittings:** Crimped

---

**PRESSURE RATINGS**

<table>
<thead>
<tr>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs/Feet</th>
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**VACUUM RATINGS**

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<th>Hose ID</th>
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</tbody>
</table>

**Note:** Hose assembly pressure ratings may be limited by the fittings and options.

**HASTELLOY® is a registered trademark of Haynes International.**
**Inner core:** Seamless convoluted white Teflon® PTFE

**Reinforcement:** KYNAR® PVDF heavy double braid

**Temperature:** -20°F to 275°F

**Construction**
Extra-thick, natural or conductive seamless helical convoluted Teflon® PTFE liner double braided with KYNAR® PVDF monofilament heavy gauge braid.

**Benefits**
- KYNAR® PVDF braid is resistant to most chemicals introduced to the external surface of the hose through typical usage
- Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions allow for smooth product flow and easy cleaning
- Rated for both medium pressure and full vacuum applications
- Wide variety of crimp style end fittings in various metallurgies
- 5:1 factor of safety
- Tighter bend radii compared to smooth bore hose styles

**Applications**
For low pH (<9) applications requiring an extremely flexible, lightweight Teflon® PTFE hose assembly conveying chemicals that permeate aggressively, or for harsh atmospheric conditions that require extreme corrosion resistance on the exterior of the assembly.

**Fittings:** Crimped

### Pressure Ratings

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<tr>
<th>Nominal Size</th>
<th>Inner Diameter (In)</th>
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<th>Max. Working Pressure at 70°F (PSIG)</th>
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<td>500</td>
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</tr>
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**Vacuum Ratings**

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<tr>
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<td>80</td>
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</tbody>
</table>

**NOTE:** Hose assembly pressure ratings may be limited by the fittings.

**Construction**
Extra-thick, natural or conductive seamless helical convoluted Teflon® PTFE liner double braided with KYNAR® PVDF monofilament heavy gauge braid.

**Benefits**
- KYNAR® PVDF braid is resistant to most chemicals introduced to the external surface of the hose through typical usage
- Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions allow for smooth product flow and easy cleaning
- Rated for both medium pressure and full vacuum applications
- Wide variety of crimp style end fittings in various metallurgies
- 5:1 factor of safety
- Tighter bend radii compared to smooth bore hose styles

**Applications**
For low pH (<9) applications requiring an extremely flexible, lightweight Teflon® PTFE hose assembly conveying chemicals that permeate aggressively, or for harsh atmospheric conditions that require extreme corrosion resistance on the exterior of the assembly.

**Fittings:** Crimped

### Pressure Ratings

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Inner Diameter (In)</th>
<th>Bend Radius (In)</th>
<th>Max. Working Pressure at 70°F (PSIG)</th>
<th>Weight Lbs / Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>15</td>
<td>2</td>
<td>500</td>
<td>15</td>
</tr>
<tr>
<td>3/4</td>
<td>20</td>
<td>2.5</td>
<td>69.9</td>
<td>25</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>6</td>
<td>101.6</td>
<td>33</td>
</tr>
<tr>
<td>1-1/2</td>
<td>40</td>
<td>10</td>
<td>152.4</td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>12</td>
<td>190.5</td>
<td>80</td>
</tr>
</tbody>
</table>

**Vacuum Ratings**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Max. Vacuum Pressure (Hg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>25</td>
</tr>
<tr>
<td>3/4</td>
<td>25</td>
</tr>
<tr>
<td>1</td>
<td>33</td>
</tr>
<tr>
<td>1-1/2</td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td>80</td>
</tr>
</tbody>
</table>

**NOTE:** Hose assembly pressure ratings may be limited by the fittings.
CKB–B Convoluted KYNAR® PVDF Braided

**Inner core:** Seamless convoluted antistatic Teflon® PTFE

**Reinforcement:** KYNAR® PVDF heavy double braid

**Temperature:** -20°F to 275°F

**Construction**
Extra-thick, natural or conductive seamless helical convoluted Teflon® PTFE liner braided with KYNAR® PVDF monofilament heavy gauge wire braid.

**Benefits**
- KYNAR® PVDF braid is resistant to most chemicals introduced to the external surface of the hose through typical usage
- Teflon® PTFE inner core provides outstanding corrosion resistance and material compatibility
- Open pitch, helical convolutions allow for smooth product flow and easy cleaning
- Rated for both medium pressure and full vacuum applications
- Wide variety of crimp style end fittings in various metallurgies
- PTFE available with natural or conductive liner
- Tighter bend radii compared to smooth bore hose styles

**Applications**
For applications requiring an extremely flexible, lightweight Teflon® PTFE hose assembly conveying chemicals that permeate aggressively, or for harsh atmospheric conditions that require extreme corrosion resistance on the exterior of the assembly.

**Fittings:** Crimped

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F</th>
<th>Burst Pressure at 70°F</th>
<th>Weight Lbs / Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
</tr>
<tr>
<td>1/2</td>
<td>15</td>
<td>0.510</td>
<td>13</td>
<td>0.960</td>
<td>24.9</td>
<td>2</td>
</tr>
<tr>
<td>3/4</td>
<td>20</td>
<td>0.760</td>
<td>19.3</td>
<td>1.250</td>
<td>31.8</td>
<td>2.5</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>1.025</td>
<td>26</td>
<td>1.560</td>
<td>39.6</td>
<td>6</td>
</tr>
<tr>
<td>1-1/2</td>
<td>40</td>
<td>1.525</td>
<td>38.7</td>
<td>2.240</td>
<td>56.9</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>2.025</td>
<td>51.4</td>
<td>2.670</td>
<td>67.8</td>
<td>12</td>
</tr>
</tbody>
</table>

KYNAR® is a registered trademark of Arkema Inc.
Inner core: Seamless convoluted Teflon® PTFE

Temperature: -20 °F to 350 °F

Construction
Seamless, helically formed convoluted Teflon® PTFE tube. Offered as tubing with cuffed ends, as well as a variety of crimped or flare thru fittings.

Benefits
- Seamless Teflon® PTFE tube formed in an open pitched, helical design for improved flow properties and easy cleaning
- Wide variety of crimp style fittings to select from
- Flare thru fittings provide PTFE protection to all wetted surfaces, eliminating metal corrosion and process contamination
- Tube is crush resistant and easy to flex

Applications
SVT is ideal for lower pressure and corrosion resistant flexible connections. It is an excellent connection to weight tanks, centrifuges and suction side of pumps, and for loading, unloading and decanting vessels and drums.

Fittings: Crimped and Flare Thru

---

### PRESSURE RATINGS

<table>
<thead>
<tr>
<th>OPERATING TEMPERATURE (°F)</th>
<th>MAXIMUM WORKING PRESSURE - PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>50</td>
</tr>
<tr>
<td>70</td>
<td>100</td>
</tr>
</tbody>
</table>

### VACUUM RATINGS

<table>
<thead>
<tr>
<th>OPERATING TEMPERATURE (°F)</th>
<th>MAXIMUM VACUUM (Hg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>35</td>
</tr>
<tr>
<td>70</td>
<td>30</td>
</tr>
</tbody>
</table>

Note: Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.

---

### Nominal Size

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs / Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
</tr>
<tr>
<td>1/2</td>
<td>15</td>
<td>0.510</td>
<td>13</td>
<td>0.700</td>
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<td>2</td>
</tr>
<tr>
<td>3/4</td>
<td>20</td>
<td>0.760</td>
<td>19.3</td>
<td>0.990</td>
<td>25.1</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>1.025</td>
<td>26</td>
<td>1.280</td>
<td>32.5</td>
<td>3</td>
</tr>
<tr>
<td>1-1/2</td>
<td>40</td>
<td>1.525</td>
<td>38.7</td>
<td>1.960</td>
<td>49.8</td>
<td>4.5</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>2.025</td>
<td>51.4</td>
<td>2.390</td>
<td>60.7</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>2.952</td>
<td>75</td>
<td>3.622</td>
<td>92.0</td>
<td>14</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>3.937</td>
<td>100</td>
<td>4.921</td>
<td>125.0</td>
<td>20</td>
</tr>
</tbody>
</table>
**Inner core**: Seamless convoluted Teflon® PTFE

**Temperature**: -20°F to 350°F

**Construction**
Seamless, helically formed convoluted Teflon® PTFE tube. Offered as tubing with cuffed ends, variety of crimp style end fittings and flare thru end fittings.

**Benefits**
- Seamless Teflon® PTFE tube formed in an open pitched, helical design for improved flow properties and easy cleaning
- Wide variety of crimp style fittings to select from
- Flare thru fittings provide PTFE protection to all wetted surfaces, eliminating metal corrosion and process contamination
- Tube is crush resistant and easy to flex
- PTFE available with natural or conductive liner
- Wire wrap for reduced bend radius, allowing for even tighter bending

**Applications**
SVT is ideal for lower pressure and corrosion resistant flexible connections. It is an excellent connection to weight tanks, centrifuges and suction side of pumps, and for loading, unloading and decanting vessels and drums.

**Fittings**: Crimped and Flare Thru

---

### PRESSURE RATINGS

<table>
<thead>
<tr>
<th>Operating Temperature (F)</th>
<th>Maximum Working Pressure - PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>20</td>
<td>10</td>
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<tr>
<td>30</td>
<td>15</td>
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<td>40</td>
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<tr>
<td>50</td>
<td>25</td>
</tr>
<tr>
<td>60</td>
<td>30</td>
</tr>
<tr>
<td>70</td>
<td>35</td>
</tr>
</tbody>
</table>

#### 1/2" thru 1"
- 1/2" thru 1" (15-25)
- 1" thru 3" (20-30)
- 4" (35)

### VACUUM RATINGS

<table>
<thead>
<tr>
<th>Operating Temperature (F)</th>
<th>Maximum Vacuum (Hg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>0</td>
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<td>10</td>
<td>5</td>
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<tr>
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<td>30</td>
<td>15</td>
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<tr>
<td>40</td>
<td>20</td>
</tr>
<tr>
<td>50</td>
<td>25</td>
</tr>
<tr>
<td>60</td>
<td>30</td>
</tr>
<tr>
<td>70</td>
<td>35</td>
</tr>
</tbody>
</table>

#### 1/2" - 1 1/2"
- 1/2" thru 1 1/2" (15-25)
- 2" - 4" not recommended for vacuum service

---

### Nominal Size Specifications

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs / Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
</tr>
<tr>
<td>1/2</td>
<td>15</td>
<td>0.510</td>
<td>13</td>
<td>0.700</td>
<td>17.8</td>
<td>0.5</td>
</tr>
<tr>
<td>3/4</td>
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<tr>
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<td>25</td>
<td>1.025</td>
<td>26</td>
<td>1.280</td>
<td>32.5</td>
<td>1</td>
</tr>
<tr>
<td>1-1/2</td>
<td>40</td>
<td>1.525</td>
<td>38.7</td>
<td>1.960</td>
<td>49.8</td>
<td>1.5</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>2.025</td>
<td>51.4</td>
<td>2.390</td>
<td>60.7</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>2.952</td>
<td>75</td>
<td>3.622</td>
<td>92.0</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>3.937</td>
<td>100</td>
<td>4.921</td>
<td>125.0</td>
<td>4</td>
</tr>
</tbody>
</table>

---

**Note**: Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance. Vacuum wire improves this to a degree.

---

**RESISTOFLEX**

**Teflon**

**White PTFE Liner**

**Vacuum Wire**

**Unreinforced Tubing**

---

Crane ChemPharma & Energy

www.cranecpe.com
**SVT–B Seamless Vent Tubing Assembly**

**Inner core:** Seamless convoluted antistatic Teflon® PTFE

**Temperature:** -20 °F to 350 °F

**Construction**
Seamless, helically formed convoluted Teflon® PTFE tube. Offered as tubing with cuffed ends, variety of crimp style end fittings and Flared Thru end fittings.

**Benefits**
- Seamless Teflon® PTFE tube formed in an open pitched, helical design for improved flow properties and easy cleaning
- Wide variety of crimp style fittings to select from
- Flared Thru fittings provide PTFE protection to all wetted surfaces, eliminating metal corrosion and process contamination
- Tube is crush resistant and easy to flex

**Applications**
SVT is ideal for lower pressure and corrosion resistant flexible connections. It is an excellent connection to weight tanks, centrifuges and suction side of pumps, and for loading, unloading and decanting vessels and drums.

**Fittings:** Crimped and Flare Thru

---

**Nominal Size**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs / Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch</td>
<td>Inch</td>
<td>Inch MM</td>
<td>Inch MM</td>
<td>PSIG</td>
</tr>
<tr>
<td>1/2</td>
<td>15</td>
<td>0.510</td>
<td>13</td>
<td>0.700</td>
<td>17.8</td>
<td>0.5</td>
</tr>
<tr>
<td>3/4</td>
<td>20</td>
<td>0.760</td>
<td>19.3</td>
<td>0.990</td>
<td>25.1</td>
<td>0.75</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>1.025</td>
<td>26</td>
<td>1.280</td>
<td>32.5</td>
<td>1</td>
</tr>
<tr>
<td>1-1/2</td>
<td>40</td>
<td>1.525</td>
<td>38.7</td>
<td>1.960</td>
<td>49.8</td>
<td>1.5</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>2.025</td>
<td>51.4</td>
<td>2.390</td>
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<td>75</td>
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<tr>
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<td>3.937</td>
<td>100</td>
<td>4.921</td>
<td>125.0</td>
<td>4</td>
</tr>
</tbody>
</table>

---

**OPERATING TEMPERATURE (F)**

**PRESSURE RATINGS**

**OPERATING TEMPERATURE (F)**

**VACUUM RATINGS**

**Note:** Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.
Inner core: Seamless convoluted antistatic Teflon® PTFE

Temperature: -20 °F to 350 °F

Construction
Seamless, helically formed convoluted Teflon® PTFE tube. Offered as tubing with cuffed ends, variety of crimped and flare thru fittings.

Benefits
- Seamless antistatic Teflon® PTFE tube formed in an open pitched, helical design for improved flow properties and easy cleaning
- Wide variety of crimp style fittings to select from
- Flared Thru fittings provide PTFE protection to all wetted surfaces, eliminating metal corrosion and process contamination
- Tube is crush resistant and easy to flex
- PTFE available with natural or conductive liner
- Wire wrap for reduced bend radius, allowing for even tighter bending

Applications
SVT is ideal for lower pressure and corrosion resistant flexible connections. It is an excellent connection to weight tanks, centrifuges and suction side of pumps, and for loading, unloading and decanting vessels and drums.

Fittings: Crimped and Flare Thru
Inner core: Smooth White Teflon® PTFE
Reinforcement: 300-series ss braid
Temperature: -20 °F to 350 °F

Construction
Extra-thick, natural smooth bore Teflon® PTFE liner braided with 300-series stainless steel heavy gauge wire.

Benefits
• Provides higher working temperatures and full vacuum capabilities
• Heavy gauge stainless steel braid is corrosion resistant against most chemicals
• Available in long lengths
• "True ID" for superior flow characteristics and easy dimensional matchup

Applications
Designed for applications requiring a true smooth inner bore for improved flow. The hose is easily cleaned in place. Excellent in stationary applications where handling, flexing or abuse is minimal.

Fittings: Crimped

VACUUM RATINGS

Pressure Ratings

Operating Temperature (°F)

Max. Working Pressure at 70°F (21°C)

Burst Pressure at 70°F (21°C)

Weight Lbs / Ft

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs / Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch DN</td>
<td>Inch</td>
<td>Inch</td>
<td>Inch</td>
<td>Inch</td>
<td>PSIG</td>
<td>BAR</td>
</tr>
<tr>
<td>3/8 10</td>
<td>0.375</td>
<td>0.815</td>
<td>515</td>
<td>13</td>
<td>5</td>
<td>127</td>
</tr>
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<td>16.1</td>
<td>6.5</td>
<td>165.1</td>
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<td>3/4 20</td>
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<td>875</td>
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<td>1190</td>
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<td>304.8</td>
</tr>
</tbody>
</table>
**RESISTOFLEX®**

**SBTF - W Smoothbore Hose**

**Inner core:** Smooth White Teflon® PTFE

**Reinforcement:** 300-series ss braid

**Temperature:** -20°F to 350°F

**Construction**

Extra-thick, natural smooth bore Teflon® PTFE liner braided with 300-series stainless steel heavy gauge wire (1" is double-braided for extra kink resistance).

**Benefits**

- Provides higher working temperatures and full vacuum capabilities
- Heavy gauge stainless steel braid is corrosion resistant against most chemicals
- Flanged assemblies can be flare thru, eliminating bacteria traps
- Available in long lengths
- "True ID" for superior flow characteristics and easy dimensional matchup

**Applications**

Designed for applications requiring a true smooth inner bore for improved flow and which is easily cleaned in place. Excellent in static applications where handling, flexing or abuse is minimal.

**Fittings:** Flare Thru

---

**PRESSURE RATINGS**

![Pressure Ratings Chart](image)

**VACUUM RATINGS**

![Vacuum Ratings Chart](image)

**Operational Conditions**

- **3/4" - 1"**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
<td>MM</td>
<td>PSIG</td>
</tr>
<tr>
<td>3/4</td>
<td>20</td>
<td>0.750</td>
<td>19.1</td>
<td>0.875</td>
<td>22.2</td>
<td>8.2</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>1.000</td>
<td>25.4</td>
<td>1.190</td>
<td>30.2</td>
<td>12</td>
</tr>
</tbody>
</table>

**Note:** Hose assembly pressure ratings may be limited by the fittings.

**Note:** Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.
**SBT - B Smooth Bore Hose**

**Inner core:** Smooth Antistatic Teflon® PTFE

**Reinforcement:** 300-series ss braid

**Temperature:** -20 °F to 350 °F

**Construction**
Extra-thick, smooth bore Teflon® PTFE liner braided with 300-series stainless steel heavy gauge wire.

**Benefits**
- Provides higher working temperatures and full vacuum capabilities
- Heavy gauge stainless steel braid is corrosion resistant against most chemicals
- Flanged assemblies can be “Flared Thru” providing no bacteria traps
- Available in long lengths
- “True ID” for superior flow characteristics and easy dimensional matchup

**Applications**
Designed for applications requiring a true smooth inner bore for improved flow and which is easily cleaned in place. Excellent in static applications where handling, flexing or abuse is minimal.

**Fittings:** Crimped

**PRESSURE RATINGS**

<table>
<thead>
<tr>
<th>Ø in.</th>
<th>Max. Working Pressure</th>
<th>Burst Pressure</th>
<th>Weight Lbs/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>2000</td>
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<td>1/2</td>
<td>1425</td>
<td>5700</td>
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<td>0.20</td>
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<td>1</td>
<td>1000</td>
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**VACUUM RATINGS**

<table>
<thead>
<tr>
<th>Ø in.</th>
<th>Max. Vacuum (mbar)</th>
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<tbody>
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<tr>
<td>1/2</td>
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<tr>
<td>3/4</td>
<td>20</td>
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<tr>
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**NOTE:** Hose assembly pressure ratings may be limited by the fittings.

**Nominal Size**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch</td>
<td>MM</td>
<td>Inch</td>
<td>MM</td>
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<td>25.4</td>
<td>1.190</td>
<td>30.2</td>
<td>12</td>
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</table>
### SBTF - B Smoothbore Hose

**Inner core:** Smooth Antistatic Teflon® PTFE  
**Reinforcement:** 300-series ss braid  
**Temperature:** -20°F to 350°F

#### Construction
Extra-thick, antistatic smooth bore Teflon® PTFE liner braided with 300-series stainless steel heavy gauge wire.

#### Benefits
- Provides higher working temperatures and full vacuum capabilities  
- Heavy gauge stainless steel braid is corrosion resistant against most chemicals  
- Flanged assemblies are flare thru, eliminating bacteria traps  
- Available in long lengths  
- “True ID” for superior flow characteristics and easy dimensional matchup

#### Applications
Designed for applications requiring a true smooth inner bore for improved flow and which is easily cleaned in place. Excellent in static applications where handling, flexing or abuse is minimal.

#### Fittings: Flare Thru

### PRESSURE RATINGS

<table>
<thead>
<tr>
<th>OPERATING TEMPERATURE (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
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#### VACUUM RATINGS

<table>
<thead>
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</thead>
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**NOTE:** Hose assembly pressure ratings may be limited by the fittings.

#### NOMINAL SIZE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs / Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch DN</td>
<td>Inch MM</td>
<td>Inch MM</td>
<td>Inch MM</td>
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<td>PSIG BAR</td>
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<td>4000 275.8 .20</td>
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<tr>
<td>1 25</td>
<td>1.000</td>
<td>25.4</td>
<td>1.190 30.2</td>
<td>12 304.8</td>
<td>1000 68.9</td>
<td>4000 275.8 50</td>
</tr>
</tbody>
</table>
TRC NXT - W Smooth Bore EPDM Rubber Covered Hose

**Inner core:** Smooth Bore White Teflon® PTFE 1/2” - 4”
**Reinforcement:** EPDM rubber
**Temperature:** -20 °F to 300 °F

**Construction**
Smooth bore Teflon® liner bonded to a cover reinforced with multiple nylon plycord and EPDM rubber. A double-helix high tensile strength wire embedded in the carcass provides crush, kink and vacuum resistance.

**Benefits**
- Robust construction delivers extended service life, compared to hoses of similar construction and appearance
- Smooth, flexible Teflon™ liner for use in a wide range of applications and ease of cleaning
- Outstanding flexibility, bend-ability and bend radius
- Durable, kink-resistant EPDM reinforced design for extended life and easy handling

**Applications**
- Chemical, food, beverage, pharmaceutical and other process transfers
- Rail car and trailer loading/unloading
- Load cell applications
- Chemical cleaning and/or steam cleaning/ sterilizing applications

**Fittings:** Crimped

---

### HOSE PRESSURE RATINGS

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
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<tbody>
<tr>
<td>INCH</td>
<td>DN</td>
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<td>INCH</td>
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<td>PSIG</td>
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<td><strong>DN</strong></td>
<td><strong>INCH</strong></td>
<td><strong>INCH</strong></td>
<td><strong>BAR</strong></td>
<td><strong>BAR</strong></td>
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<tr>
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<td>1.02</td>
<td>1.8 44</td>
<td>2400 165.5</td>
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<td>2.5 64</td>
<td>2200 151.7</td>
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<tr>
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<td>1.490</td>
<td>2.17</td>
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<td>1720 118.6</td>
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<tr>
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<td>1720 118.6</td>
</tr>
<tr>
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<td>80</td>
<td>2.950</td>
<td>3.812</td>
<td>24 711.2</td>
<td>1200 82.7</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>3.940</td>
<td>4.937</td>
<td>42 1066.8</td>
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**NOTE:** Hose assembly pressure ratings may be limited by the fittings.

---

**HOSE VACUUM RATINGS**

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<thead>
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<th>Nominal Size</th>
<th>Hose ID</th>
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<td><strong>INCH</strong></td>
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<td>1.34</td>
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<tr>
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<td>5.5 140</td>
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<td>100</td>
<td>3.940</td>
<td>4.937</td>
<td>42 1066.8</td>
</tr>
</tbody>
</table>

**NOTE:** Custom colors available upon request. Consult factory.
TRCF NXT - W Smooth Bore EPDM Rubber Covered Hose

**Inner core:** Smooth Bore White Teflon® PTFE 3/4” - 2”

**Reinforcement:** EPDM rubber

**Temperature:** -20 °F to 300 °F

### Construction
Smooth bore Teflon® liner drawn into a cover reinforced with multiple nylon plycord and EPDM rubber. A double-helix high tensile strength wire embedded in the carcass provides crush, kink and vacuum resistance.

### Benefits
- Robust construction delivers extended service life, especially in steam cycling situations, compared to hoses of similar construction and appearance
- Smooth, flexible Teflon® liner for use in a wide range of applications and ease of cleaning
- Outstanding flexibility, bend-ability and bend radius
- Durable, kink-resistant EPDM reinforced design for extended life and easy handling
- Interference fit liner provides full vacuum resistance without toxic etchants or adhesives

### Applications
- Chemical, food, beverage, pharmaceutical and other process transfers
- Rail car and trailer loading/unloading
- Load cell applications
- Chemical cleaning and/or steam cleaning/sterilizing applications

### Fittings: Flare Thru

### PRESSURE RATINGS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>HOSE I.D.</th>
<th>HOSE O.D.</th>
<th>MIN. BEND RADIUS</th>
<th>MAX. WORKING PRESSURE AT 70°F (PSIG)</th>
<th>BURST PRESSURE AT 70°F (PSIG)</th>
<th>WEIGHT LBS/FT</th>
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<tr>
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<td>1600</td>
<td>.56</td>
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<tr>
<td>1</td>
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<td>2.05</td>
<td>300</td>
<td>1600</td>
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<tr>
<td>1-1/2</td>
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<td>300</td>
<td>1600</td>
<td>1.22</td>
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<td>1.870</td>
<td>2.56</td>
<td>65</td>
<td>300</td>
<td>1200</td>
<td>1.84</td>
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</tbody>
</table>
Inner core: Smooth Bore Antistatic Teflon® PTFE 1/2” - 4”
Reinforcement: EPDM rubber
Temperature: -20°F to 300°F

Construction
Smooth bore antistatic Teflon® liner bonded to a cover reinforced with multiple nylon plycord and EPDM rubber. A double-helix high tensile strength wire embedded in the carcass provides crush, kink and vacuum resistance.

Benefits
- Robust construction delivers extended service life, especially in steam cycling situations, compared to hoses of similar construction and appearance
- Smooth, flexible Teflon® liner for use in a wide range of applications and ease of cleaning
- Outstanding flexibility, bend-ability and bend radius
- Durable, kink-resistant EPDM reinforced design for extended life and easy handling

Applications
- Chemical, food, beverage, pharmaceutical and other process transfers
- Rail car and trailer loading/unloading
- Load cell applications
- Chemical cleaning and/or steam cleaning/sterilizing applications

Fittings: Crimped

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs / Ft</th>
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</thead>
<tbody>
<tr>
<td>INCH DN INCH MM INCH MM INCH MM</td>
<td>PSIG BAR</td>
<td>PSIG BAR</td>
<td></td>
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<td></td>
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<td>1/2</td>
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<td>25.1</td>
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<tr>
<td>1-1/2</td>
<td>40</td>
<td>1.49</td>
<td>37.8</td>
<td>2.17</td>
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<td>101.9</td>
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<td>125.4</td>
<td>42</td>
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</tbody>
</table>
**Inner core:** Smooth Bore Antistatic Teflon® PTFE 3/4” - 2”

**Reinforcement:** EPDM rubber

**Temperature:** -20 °F to 300 °F

### Construction
Smooth bore Teflon® liner drawn into a cover reinforced with multiple nylon plycord and EPDM rubber. A double-helix high tensile strength wire embedded in the carcass provides crush, kink and vacuum resistance.

### Benefits
- Robust construction delivers extended service life, especially in steam cycling situations, compared to hoses of similar construction and appearance
- Smooth, flexible Teflon® liner for use in a wide range of applications and ease of cleaning
- Outstanding flexibility, bend-ability and bend radius
- Durable, kink-resistant EPDM reinforced design for extended life and easy handling
- Interference fit liner provides full vacuum resistance without toxic etchants or adhesives

### Applications
- Chemical, food, beverage, pharmaceutical and other process transfers
- Rail car and trailer loading/unloading
- Load cell applications
- Chemical cleaning and/or steam cleaning/sterilizing applications

### Fittings: Flare Thru

<table>
<thead>
<tr>
<th>Size</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Min Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Weight Lbs / Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>DN</td>
<td>Inch MM</td>
<td>Inch MM</td>
<td>PSIG BAR</td>
<td>PSIG BAR</td>
<td></td>
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<tr>
<td>3/4</td>
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<td>3 76.2 34.5 500 2000 137.8 0.56</td>
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<td></td>
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<tr>
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<td>25</td>
<td>0.870 22.1</td>
<td>1.56 39.6</td>
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<tr>
<td>1-1/2</td>
<td>40</td>
<td>1.370 34.8</td>
<td>2.05 52</td>
<td>12 304.8 350 241 1400 96.5 1.22</td>
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<td>50</td>
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<td>2.56 65</td>
<td>12 304.8 300 20.7 1200 82.8 1.84</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Hose assembly pressure ratings may be limited by the fittings.

**NOTE:** Custom colors available upon request. Consult factory.
TRCF NXT - B Smooth Bore EPDM Rubber Covered Hose

**Inner Core:** Smooth Teflon® PTFE  
**Reinforcement:** 316 SS metal hose w/ 304 SS wire braid  
**Temperature:** -20°F to 350°F

- **Construction**
  A rugged yet flexible metal carcass with a smooth, heavy wall Teflon® PTFE liner. The assembly is manufactured using our exclusive flare through Thermalok™ process that extends the PTFE over the sealing face, creating a corrosion barrier throughout the assembly, maximizing vacuum resistance and service life.

- **Benefits**
  - Maximum protection from premature failure and environmental release  
  - Teflon® PTFE inner core provides outstanding resistance to corrosion at elevated temperatures and nearly universal material compatibility  
  - Flare Thru design eliminates metal corrosion and process contamination  
  - Vent system for Teflon® per ASTM F1545 Lined Steel Pipe prevents pressure buildup on outside of liner and extends service life  
  - Optional vent coupling to vent away from insulation and capture gases for containment from atmosphere  
  - Available in diameters up to 6"

- **Applications**
  Designed for severe service applications where media containment and leak prevention is imperative.

- **Fittings:** Flare Thru

- **External Protective Accessories**
  Contact factory for details.

---

**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Weight 1ft Flanged Assembly** | **Weight per adlt. Ft.** | **Maximum Length (Ft.)**
---|---|---|---|---|---|---|---
1 | 25 | 0.875 | 22.2 | 1.590 | 40.4 | 12 | 304.8 | 590 | 40.7 | 3.53 | 1.03 | 20
1-1/2 | 40 | 1.375 | 34.9 | 2.270 | 57.7 | 15 | 381.0 | 475 | 32.8 | 5.79 | 1.96 | 20
2 | 50 | 1.875 | 47.6 | 2.910 | 73.9 | 21 | 533.4 | 530 | 36.5 | 9.49 | 2.67 | 20
3 | 80 | 2.797 | 71.0 | 3.690 | 93.7 | 28 | 711.2 | 335 | 23.1 | 14.44 | 2.64 | 15
4 | 100 | 3.766 | 95.7 | 4.840 | 122.9 | 46 | 1168.4 | 240 | 16.5 | 21.57 | 3.17 | 14
6 | 150 | 5.688 | 144.5 | 7.160 | 181.9 | 65 | 1651.0 | 180 | 12.4 | 39.94 | 6.74 | 10

**Pressure Ratings**

**Vacuum Ratings**

**Burst Pressure = 4x Max. Working Pressure at 70F (21°C)**
TMH MONEL® - W Smooth Bore Chemical Transfer Hose

Inner Core: Smooth Teflon® PTFE
Reinforcement: MONEL® metal hose with MONEL® wire braid
Temperature: -20°F to 350°F

- **Construction**
  A rugged yet flexible metal carcass with a smooth, heavy wall Teflon® PTFE liner. The assembly is manufactured using our exclusive flare through Thermalok™ process that extends the PTFE over the sealing face, creating a corrosion barrier throughout the assembly, maximizing vacuum resistance and service life.

- **Benefits**
  - Maximum protection from premature failure and environmental release
  - Teflon® PTFE inner core provides outstanding resistance to corrosion at elevated temperatures and nearly universal material compatibility
  - Flare Thru design eliminates metal corrosion and process contamination
  - Vent system for Teflon® per ASTM F1545 Lined Steel Pipe prevents pressure buildup on outside of liner and extends service life
  - Optional vent coupling to vent away from insulation and capture gases for containment from atmosphere
  - Available in diameters up to 6"

- **Applications**
  Designed for severe service applications where media containment and leak prevention is imperative. TMH-MONEL® is designed for services where both internal and external corrosion are a concern, and where applications place stainless steel at risk for stress cracking.

- **Fittings:** Flare Thru

- **External Protective Accessories**
  Contact factory for details.

---

**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Weight 1f ft Flanged Assembly** | **Weight per adfl. Ft.** | **Maximum Length (Ft.)**
---|---|---|---|---|---|---|---
1 | 25 | 0.875 | 22.2 | 1.590 | 40.4 | 12 | 304.8 | 590 | 40.7 | 3.53 | 1.03 | 20'
1-1/2 | 40 | 1.375 | 34.9 | 2.270 | 57.7 | 15 | 381.0 | 475 | 32.8 | 5.79 | 1.96 | 20'
2 | 50 | 1.875 | 47.6 | 2.910 | 73.9 | 21 | 533.4 | 530 | 36.5 | 9.49 | 2.67 | 20'
3 | 80 | 2.797 | 71.0 | 3.690 | 93.7 | 28 | 711.2 | 335 | 23.1 | 14.44 | 2.64 | 15'
4 | 100 | 3.766 | 95.7 | 4.840 | 122.9 | 46 | 1168.4 | 240 | 16.5 | 21.57 | 3.17 | 14'
6 | 150 | 5.688 | 144.5 | 7.160 | 181.9 | 65 | 1651.0 | 180 | 12.4 | 39.94 | 6.74 | 10'

**Pressure Ratings**

<table>
<thead>
<tr>
<th>Operating Temperature (F)</th>
<th>Maximum Working Pressure - PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>600</td>
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<td>300</td>
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<tr>
<td>350</td>
<td>20</td>
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</table>

**Vacuum Ratings**

<table>
<thead>
<tr>
<th>Operating Temperature (F)</th>
<th>Maximum Vacuum (mmHg)</th>
</tr>
</thead>
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</table>

Note: Maximum vacuum and working pressures may be limited by the fittings.

**Burst Pressure = 4x Max. Working Pressure at 70°F (21°C)**

MONEL® is a trademark of the Special Metals Corporation group of companies.
Inner Core: Smooth Teflon® PTFE
Reinforcement: HASTELLOY® hose with HASTELLOY® braid
Temperature: -20 °F to 350 °F

Construction
A rugged yet flexible metal carcass with a smooth, heavy wall Teflon® PTFE liner. The assembly is manufactured using our exclusive flare through Thermalok™ process that extends the PTFE over the sealing face, creating a corrosion barrier throughout the assembly, maximizing vacuum resistance and service life.

Benefits
- Maximum protection from premature failure and environmental release
- Teflon® PTFE inner core provides outstanding resistance to corrosion at elevated temperatures and nearly universal material compatibility
- Flare Thru design eliminates metal corrosion and process contamination
- Vent system for Teflon® per ASTM F1545 Lined Steel Pipe prevents pressure buildup on outside of liner and extends service life
- Optional vent coupling to vent away from insulation and capture gases for containment from atmosphere
- Available in diameters up to 6”

Applications
Designed for severe service applications where media containment and leak prevention is imperative.

Fittings: Flare Thru

External Protective Accessories
Contact factory for details.

Pressures

Burst Pressure = 4x Max. Working Pressure at 70°F (21°C)

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Hose ID</th>
<th>Hose OD</th>
<th>Bend Radius</th>
<th>Max. Working Pressure at 70°F (Bar)</th>
<th>Weight 1ft Flanged Assembly</th>
<th>Weight per adlt. Ft.</th>
<th>Maximum Length (Ft.)</th>
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HASTELLOY® is a registered trademark of Haynes International.

www.cranecpe.com
TMH 316 SS - B Smooth Bore Chemical Transfer Hose

**Inner Core:** Smooth antistatic Teflon® PTFE

**Reinforcement:** 316 SS metal hose w/ 304 SS wire braid

**Temperature:** -20 °F to 350 °F

**Construction**

A rugged yet flexible metal carcass with a smooth, antistatic heavy wall Teflon® PTFE liner. The assembly is manufactured using our exclusive flare through Thermalok™ process that extends the PTFE over the sealing face, creating a corrosion barrier throughout the assembly, maximizing vacuum resistance and service life.

**Benefits**

- Maximum protection from premature failure and environmental release
- Teflon® PTFE inner core provides outstanding resistance to corrosion at elevated temperatures and nearly universal material compatibility
- Flare Thru design eliminates metal corrosion and process contamination
- Vent system for Teflon® per ASTM F1545 Lined Steel Pipe prevents pressure buildup on outside of liner and extends service life
- Optional vent coupling to vent away from insulation and capture gases for containment from atmosphere
- Available in diameters up to 6"

**Applications**

Designed for severe service applications where media containment and leak prevention is imperative.

**Fittings:** Flare Thru

Not all end fittings available for all hose diameters – consult factory

Auxiliary flanges can be added for flanged end protection and easy replacement when ends are damaged, thus eliminating the need to replace the complete assembly

**External Protective Accessories**

Contact factory for details.

**Pressure Ratings**

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**Nominal Size**

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<th>Hose OD (Inch)</th>
<th>Bend Radius (Inch)</th>
<th>Max. Working Pressure at 70°F (PSIG)</th>
<th>Weight 1ft Flanged Assembly (LB)</th>
<th>Weight per #10 FT (LB)</th>
<th>Maximum Length (FT.)</th>
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<td>1 1/2</td>
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</table>

**Burst Pressure = 4x Max. Working Pressure at 70°F (21 C)**
TMH MONEL® - B Smooth Bore Chemical Transfer Hose

**Inner Core:** Smooth antistatic Teflon® PTFE  
**Reinforcement:** MONEL® metal hose with MONEL® wire braid  
**Temperature:** -20°F to 350°F

**Construction**  
A rugged yet flexible metal carcass with a smooth, antistatic heavy wall Teflon® PTFE liner. The assembly is manufactured using our exclusive flare through Thermalok™ process that extends the PTFE over the sealing face, creating a corrosion barrier throughout the assembly, maximizing vacuum resistance and service life.

**Benefits**  
- Maximum protection from premature failure and environmental release  
- Teflon® PTFE inner core provides outstanding resistance to corrosion at elevated temperatures and nearly universal material compatibility  
- Flare Thru design eliminates metal corrosion and process contamination  
- Vent system for Teflon® per ASTM F1545 Lined Steel Pipe prevents pressure buildup on outside of liner and extends service life  
- Optional vent coupling to vent away from insulation and capture gases for containment from atmosphere  
- Available in diameters up to 6"

**Applications**  
Designed for severe service applications where media containment and leak prevention is imperative. TMH-MONEL® is designed for services where both internal and external corrosion are a concern, and where applications place stainless steel at risk for stress cracking.

**Fittings:** Flare Thru

**External Protective Accessories**  
Contact factory for details.

**Nominal Size**  | **Hose ID**  | **Hose OD**  | **Bend Radius**  | **Max. Working Pressure at 70°F (21°C)**  | **Weight 1 ft Flanged Assembly**  | **Weight per additional Ft.**  | **Maximum Length (Ft.)**
---|---|---|---|---|---|---|---
1  | 25 | 0.875 | 22.2 | 1.590 | 40.4 | 12 | 304.8 | 590 | 40.7 | 3.53 | 1.03 | 20'
1.1/2  | 40 | 1.375 | 34.9 | 2.270 | 57.7 | 15 | 381.0 | 475 | 32.8 | 5.79 | 1.96 | 20'
2  | 50 | 1.875 | 47.6 | 2.910 | 73.9 | 21 | 533.4 | 530 | 36.5 | 9.49 | 2.67 | 20'
3  | 80 | 2.797 | 71.0 | 3.690 | 93.7 | 28 | 711.2 | 335 | 23.1 | 14.44 | 2.64 | 15'
4  | 100 | 3.766 | 95.7 | 4.840 | 122.9 | 46 | 1168.4 | 240 | 16.5 | 21.57 | 3.17 | 14'
6  | 150 | 5.688 | 144.5 | 7.160 | 181.9 | 65 | 1651.0 | 180 | 12.4 | 39.94 | 6.74 | 10'

Burst Pressure = 4x Max. Working Pressure at 70°F (21°C)

MONE® is a trademark of the Special Metals Corporation group of companies.
**TMH HASTELLOY® - B Smooth Bore Chemical Transfer Hose**

**Inner Core:** Smooth antistatic Teflon® PTFE

**Reinforcement:** HASTELLOY® hose with HASTELLOY® braid

**Temperature:** -20 °F to 350 °F

**Construction**

A rugged yet flexible metal carcass with a smooth, antistatic heavy wall Teflon® PTFE liner. The assembly is manufactured using our exclusive flare through Thermalok™ process that extends the PTFE over the sealing face, creating a corrosion barrier throughout the assembly, maximizing vacuum resistance and service life.

**Benefits**

- Maximum protection from premature failure and environmental release
- Teflon® PTFE inner core provides outstanding resistance to corrosion at elevated temperatures and nearly universal material compatibility
- Flare Thru design eliminates metal corrosion and process contamination
- Vent system for Teflon® per ASTM F1545 Lined Steel Pipe prevents pressure buildup on outside of liner and extends service life
- Optional vent coupling to vent away from insulation and capture gases for containment from atmosphere
- Available in diameters up to 6”

**Applications**

Designed for severe service applications where media containment and leak prevention is imperative.

**Fittings:** Flare Thru

Not all end fittings available for all hose diameters – consult factory

Auxiliary flanges can be added for flanged end protection and easy replacement when ends are damaged, thus eliminating the need to replace the complete assembly

**External Protective Accessories**

Contact factory for details.

---

**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Weight 1ft Flanged Assembly** | **Weight per adtl. Ft.** | **Maximum Length (ft.)**
--- | --- | --- | --- | --- | --- | --- | ---
1” | 25 | 0.875 | 22.2 | 1.590 | 40.4 | 12 | 304.8 | 590 | 40.7 | 3.53 | 1.03 | 20
1-1/2” | 40 | 1.375 | 34.9 | 2.270 | 57.7 | 15 | 381.0 | 475 | 32.8 | 5.79 | 1.96 | 20
2” | 50 | 1.875 | 47.6 | 2.910 | 73.9 | 21 | 533.4 | 435 | 36.5 | 9.49 | 2.67 | 20
3” | 80 | 2.787 | 71.0 | 3.690 | 93.7 | 28 | 711.2 | 335 | 3.53 | 1.44 | 2.64 | 20
4” | 100 | 3.766 | 95.7 | 4.840 | 122.9 | 46 | 1168.4 | 240 | 16.5 | 21.57 | 3.17 | 14

**NOTE:** Hose assembly pressure ratings may be limited by the fittings.

**PRESSURE RATINGS**

**VACUUM RATINGS**

**Burst Pressure = 4x Max. Working Pressure at 70°F (21°C)**

HASTELLOY® is a registered trademark of Haynes International.
Inner core: Smooth Teflon® PTFE
Reinforcement: SBR and Neoprene
Temperature Range: -20°F - 300°F

**Construction**

Heavy wall smooth bore Teflon® PTFE tube reinforced with multiple plies of fabric supported styrene-butadine rubber (SBR), embedded spring steel helix wire and a Neoprene cover.

**Benefits**

- Heavy duty construction designed for durability in applications where hoses are frequently mishandled
- Molded integral end fitting reinforcement eliminates possibility of end fitting detachment
- PTFE Flared Thru design eliminates metal corrosion and process contamination

**Applications**

Used where a flanged flexible connection is required to transfer corrosive and/or hazardous media. Smooth inner liner provides uninterrupted laminar flow. Construction provides maximum protection available in a fluoropolymer hose assembly from unintentional disconnection and mechanical failure.

**Fittings:** Flare Thru

Auxiliary flanges can be added for flared end protection and easy replacement when ends are damaged, thus eliminating the need to replace the complete assembly.

![TR-W Truck-Rail Teflon® Smooth Bore Transfer Hose](image)

**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Burst Pressure at 70°F (21°C)** | **Maximum Length**
---|---|---|---|---|---|---
1" | 25 | 0.875 | 22.2 | 1.625 | 41.3 | 18 | 4572 | 150 | 10.3 | 600 | 10.3 | 20’
1-1/2" | 40 | 1.375 | 34.9 | 2.188 | 55.6 | 18 | 4572 | 150 | 10.3 | 600 | 10.3 | 20’
2" | 50 | 1.875 | 47.6 | 2.813 | 71.5 | 24 | 609.6 | 150 | 10.3 | 600 | 10.3 | 20’
3" | 80 | 2.813 | 71.5 | 3.813 | 96.9 | 30 | 762.0 | 150 | 10.3 | 600 | 10.3 | 15’
4" | 100 | 3.813 | 96.9 | 4.938 | 125.4 | 36 | 914.4 | 150 | 10.3 | 600 | 10.3 | 14’

**Pressure Ratings**

![Pressure Ratings Graph](image)

**Vacuum Ratings**

Ayuxiliar vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.

Note: Vacuum ratings are based on testing done on straight assemblies. Bent assemblies may have reduced vacuum resistance.

For temperatures above 70°F consult factory.
**TR – B Truck-Rail Teflon® Smooth Bore Transfer Hose**

**Inner core:** Smooth Antistatic Teflon® PTFE  
**Reinforcement:** SBR and Neoprene  
**Temperature Range:** -20 °F - 300 °F

**Construction**
Heavy wall antistatic smooth bore Teflon® PTFE tube reinforced with multiple plies of fabric supported styrene-butadine rubber (SBR), embedded spring steel helix wire and a Neoprene cover.

**Benefits**
- Heavy duty construction designed for durability in applications where hoses are frequently mishandled
- Molded integral end fitting reinforcement eliminates possibility of end fitting detachment
- PTFE Flared Thru design eliminates metal corrosion and process contamination

**Applications**
Used where a flanged flexible connection is required to transfer corrosive and/or hazardous media. Smooth inner liner provides uninterrupted laminar flow. Construction provides maximum protection available in a fluoropolymer hose assembly from unintentional disconnection and mechanical failure.

**Fittings:** Flare Thru

Auxiliary flanges can be added for flared end protection and easy replacement when ends are damaged, thus eliminating the need to replace the complete assembly.

---

**PRESSURE RATINGS**

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<th>OPERATING TEMPERATURE (°F)</th>
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**VACUUM RATINGS**

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<td>14'</td>
<td>14'</td>
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**Nominal Size** | **Hose ID** | **Hose OD** | **Bend Radius** | **Max. Working Pressure at 70°F (21°C)** | **Burst Pressure at 70°F (21°C)** | **Maximum Length**
---|---|---|---|---|---|---
1 Inch | 25 | 0.875 | 22.2 | 1.625 | 41.3 | 18 | 457.2 | 150 | 10.3 | 600 | 41.4 | 20' |
1-1/2 Inch | 40 | 1.375 | 34.9 | 2.188 | 55.6 | 18 | 457.2 | 150 | 10.3 | 600 | 41.4 | 20' |
2 Inch | 50 | 1.875 | 47.6 | 2.813 | 71.5 | 18 | 609.6 | 150 | 10.3 | 600 | 41.4 | 20' |
3 Inch | 80 | 2.813 | 71.5 | 3.813 | 96.9 | 30 | 762.0 | 150 | 10.3 | 600 | 41.4 | 15' |
4 Inch | 100 | 3.813 | 96.9 | 4.938 | 125.4 | 36 | 914.4 | 150 | 10.3 | 600 | 41.4 | 14' |
Si-W NXT Fabric-Reinforced Silicone Hose

- **Low Volatile Grade Platinum-Cured Silicone**
- **Multi-Ply Polyester Fabric Reinforcement**
- **High Pressure**
- **Non-Vacuum Rated**

**Benefits**
- Suitable for pharmaceutical, biomedical, cosmetic and food applications
- -50°F – 280°F temperature range
- Sterilizable/Autoclavable
- Documented lot traceable
- Available in custom lengths (up to 130 feet) and color coding

**Approvals**
- **USP Class VI**

**Meets or Exceeds:**
- FDA CFR 177.2600
- USDA and 3A Standards
- ISO 10993
- European Pharmacopoeia 3.1.9

**Fittings**

![Image of fittings]

### PRESSURE RATINGS

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<th>Hose Nominal I.D.</th>
<th>Wall Thickness</th>
<th>Hose O.D.</th>
<th>Min. Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Approximate Weight</th>
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<td>Inch MM</td>
<td>Inch MM</td>
<td>Inch MM</td>
<td>PSIG BAR</td>
<td>PSIG BAR</td>
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*NOTE:* For assemblies, pressure ratings of fittings may be less than for the hose.
Si-V NXT Silicone Wire-Reinforced Hose

- Low Volatile Grade Platinum-Cured Silicone
- 4-Ply Polyester Braid, SS Wire Reinforced
- Rated for Full Vacuum

**Benefits**
- Suitable for pharmaceutical, biomedical, cosmetic and food applications
- -50°F – 280°F temperature range
- Rated for full vacuum to 300°F
- Sterilizable/Autoclavable
- Documented lot traceable
- Available in custom lengths (up to 130 feet) and color coding
- Factory assembly and packaging in a Class 10,000 clean room as standard

**Approvals**
- USP Class VI
- USP MEM Elution <87> on all parts

**Meets or Exceeds:**
- FDA CFR 177.2600
- USDA and 3A Standards
- ISO 10993
- European Pharmacopoeia 3.1.9

**Fittings**
- Sanitary
- Industrial
- Flanged
- Cam & Groove
- Special

<table>
<thead>
<tr>
<th>Nominal I.D.</th>
<th>Wall Thickness</th>
<th>Hose O.D.</th>
<th>Min. Bend Radius</th>
<th>Max. Working Pressure at 70°F (21°C)</th>
<th>Burst Pressure at 70°F (21°C)</th>
<th>Vacuum Rating at 300°F (149°C)</th>
<th>Approximate Weight</th>
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Note: 1 1/4", 2 1/2", 3", and 4" sizes available - Consult factory
CTHK - Teflon® Convoluted Bore Chlorine Hose

**Inner core:** “Seamless” antistatic convoluted Teflon® PTFE

**Reinforcement:** KYNAR® PVDF double braid

**Temperature:** -40 °F to 275 °F

**External Protection:** HDPE plastic spiral guard

### Construction

Extra-thick, “seamless” helical convoluted Teflon® PTFE liner double braided with KYNAR® PVDF, and HDPE spiral guard as a protective cover (per the Chlorine Institute pamphlet 6 guidelines.)

### Benefits

- Fully complies with the guidelines of The Chlorine Institute Pamphlet 6, Appendix A for Chlorine Transfer Hose
- Open pitched, helical convolutions for easy cleaning
- Rated for full vacuum
- Designed to handle the rigors of everyday handling at chlorine transfer stations
- Tighter bend radii than smooth bore alternatives

### Applications

For use with Chlorine/Bromine transfers from shipping containers to stationary equipment (rail, truck, and cylinder) and cylinder filling stations.

### Fittings: Monel® Crimp Style

Hastelloy® also available. Consult factory.

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**PRESSURE RATINGS**

**VACUUM RATINGS**

**Operating Temperature (F)**

**Max. Working Pressure - PSIG**

**Burst Pressure at 70 °F (21 °C)**

**Weight Lbs./Ft**

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<th>Nominal Size</th>
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<th>Bend Radius</th>
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<th>Burst Pressure at 70°F (21°C)</th>
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</table>

**Example:** Hose Length = 12-1/2”

**Length Code = 00124**

**Accessory Code:** E

HDPE Spiral Guard: E

Other Accessories: See Page 39

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