



Versilon™ WCS* Hose

Stainless Steel Braided Helically Convoluted Inner Tube Fluoropolymer Hose

Saint-Gobain's Versilon™ WCS hose is constructed with a PTFE convoluted inner tube and reinforced with high tensile strength 304 stainless steel braid. The convoluted inner tube is low profile and helically formed to promote drainage. This design enables superior flexibility and vacuum resistance.

Versilon™ WCS hose reduces risk of flavor contamination, does not absorb color and odor, cleans easily with SIP, CIP and can be autoclaved. It is also non-stick and non-contaminating.

Features and Benefits

PTFE inner tube:

- Superior flexibility and vacuum resistance
- Convoluted inner tube is low profile and helically formed to promote drainage
- Low risk of flavor contamination
- Does not absorb color or odor
- Non-stick, non-contaminating
- Easy to clean (SIP, CIP, autoclavable)

Typical Applications

- Chemical transfer
- Steam (tire press) transfer
- Solvent transfer
- Acid lines
- Adhesive transfer
- CIP lines
- Food and beverage transfer

Regulatory Compliance

- Compliant with FDA 21CFR 177.1550
- US Pharmacopeia Class VI

* Former Sanitary Couplers' SBTC Hose

WCS Hose Specifications

| Part Number | Inside Diameter | | Outside Diameter | | Maximum Working Pressure | | Minimum Burst Pressure | | Minimum Bend Radius | | Vacuum Hg @ 70°F | | Weight | |
|-------------|-----------------|------|------------------|------|--------------------------|-------|------------------------|-------|---------------------|-------|------------------|------|---------|--------|
| | (in) | (mm) | (in) | (mm) | (psi) | (MPa) | (psi) | (MPa) | (in) | (mm) | (in) | (mm) | (lb/ft) | (kg/m) |
| 2706WCS00 | 3/8 | 9.5 | 5/8 | 15.9 | 2,200 | 15.17 | 8,800 | 60.67 | 1.75 | 44.5 | 29.9 | 760 | 0.15 | 0.22 |
| 2708WCS00 | 1/2 | 12.7 | 3/4 | 19.1 | 1,750 | 12.07 | 7,000 | 48.26 | 1.75 | 44.5 | 29.9 | 760 | 0.19 | 0.28 |
| 2710WCS00 | 5/8 | 15.9 | 1 | 25.4 | 1,750 | 12.07 | 7,000 | 48.26 | 2.00 | 50.8 | 29.9 | 760 | 0.22 | 0.33 |
| 2712WCS00 | 3/4 | 19.1 | 1-1/8 | 28.6 | 1,375 | 9.48 | 5,500 | 37.92 | 2.25 | 57.2 | 29.9 | 760 | 0.30 | 0.45 |
| 2716WCS00 | 1 | 25.4 | 1-3/8 | 34.9 | 1,000 | 6.89 | 4,300 | 29.65 | 2.75 | 69.9 | 29.9 | 760 | 0.40 | 0.60 |
| 2720WCS00 | 1-1/4 | 31.8 | 1-5/8 | 41.3 | 750 | 5.17 | 3,200 | 22.06 | 3.50 | 88.9 | 29.9 | 760 | 0.50 | 0.74 |
| 2724WCS00 | 1-1/2 | 38.1 | 2-1/8 | 54.0 | 650 | 4.48 | 2,600 | 17.93 | 3.75 | 95.3 | 29.9 | 760 | 0.63 | 0.94 |
| 2732WCS00 | 2 | 50.8 | 2-1/2 | 63.5 | 600 | 4.14 | 2,400 | 16.55 | 6.50 | 165.1 | 5.0 | 127 | 0.89 | 1.32 |

⚠ Important:

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

For styles above 2" ID, refer for info on TWOB/TBOB series hose.

Working Pressure is given at 70°F; decrease working pressure 1% for every 2°F above 250°F.

Vacuum Rating at minimum bend radius (72°F); all sizes up to and including 1-1/2" rated at 29.9" Hg; 2" rated at 5.0 Hg. Decrease vacuum rating 1% for every 2°F above 250°F.

Data given is for straight hose installation.

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

Construction

| | | | | | | | | | | | | | | | | | |
|--|---|--------|------|----|------|------|------|--------|------|------|------|--------|------|------|------|----|-----|
| Inner Tube: | White PTFE | | | | | | | | | | | | | | | | |
| Reinforcement: | High tensile strength 304 stainless steel braid | | | | | | | | | | | | | | | | |
| Temperature Rating: | -65°F to +450°F -54°C to +232°C | | | | | | | | | | | | | | | | |
| Minimum Overall Length of Hose Assemblies with Anti-Kink Casing: | 3/8" and 1/2" sizes - 24" OAL 5/8" and 3/4" sizes - 36" OAL* 1" size - 36" OAL 1-1/2 size - 36" OAL** 2" size - 48" OAL** | | | | | | | | | | | | | | | | |
| Maximum Length: | <table border="1"> <tr> <td>3/8"</td> <td>100'</td> <td>1"</td> <td>150'</td> </tr> <tr> <td>1/2"</td> <td>125'</td> <td>1-1/4"</td> <td>100'</td> </tr> <tr> <td>5/8"</td> <td>125'</td> <td>1-1/2"</td> <td>100'</td> </tr> <tr> <td>3/4"</td> <td>100'</td> <td>2"</td> <td>75'</td> </tr> </table> <p>Maximum length may vary. Length supplied will be based on full coil length in stock ±25% of the order length.</p> | 3/8" | 100' | 1" | 150' | 1/2" | 125' | 1-1/4" | 100' | 5/8" | 125' | 1-1/2" | 100' | 3/4" | 100' | 2" | 75' |
| 3/8" | 100' | 1" | 150' | | | | | | | | | | | | | | |
| 1/2" | 125' | 1-1/4" | 100' | | | | | | | | | | | | | | |
| 5/8" | 125' | 1-1/2" | 100' | | | | | | | | | | | | | | |
| 3/4" | 100' | 2" | 75' | | | | | | | | | | | | | | |

* Shorter lengths are possible with mini sanitary fittings; consult factory.

** Shorter lengths are possible with same size sanitary clamped ends; consult factory.

Fitting Options

Versilon Crimp Style Fittings

- Over 40 styles of stocked crimp-style fittings in a wide range of materials
- Standard: 316L stainless steel (wetted surfaces)
- Carbon steel: J.I.C. (female), male NPT, crimp collars (1/2" to 2") - Consult factory for fitting dimensions

Common Media

- Sulfuric acid
- High pressure steam
- Hydrofluoric acid
- Silicone/hot glues
- Caustic solutions
- Syrups/flavors

Hose Cover Options

- Anti-kink casing
- Firesleeve/insulating cover
- Heat shrink/rubber cover
- Silicone slip-on cover

Contact your sales manager or customer service representative for hose cover recommendations to suit your application.

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