




# Versilon™ TWOP Hose

## Unbraided Helically Convoluted Inner Tube Fluoropolymer Hose

Saint-Gobain Performance Plastics' Versilon TWOP hose is constructed with a PTFE convoluted inner tube and has no braid reinforcement. The convoluted inner tube has open pitch helical convolutions to ensure smooth product flow and is extremely flexible.

Versilon TWOP hose's inner tube has a non-stick surface and cleans easily with steam, caustics, solvents or other cleaning agents.



### Features and Benefits

- Excellent chemical resistance
- Compatible with almost all materials
- Rounded, open-pitch helical convolutions shaped to ensure smooth product flow
- Non-stick surface, easy to clean (steam, caustics, solvents or other cleaning agents)
- Easy to flex, yet won't flatten when bent
- Can be clamped to sanitary tubing or pipe
- Cuff lengths can be varied to meet customer requirements
- Can be supplied with permanently attached Versilon fittings
- Extremely flexible
- Kink resistant

### Typical Applications

- Sanitary transfer
- Food, flavors and syrups
- Solvent transfer
- Drain and sample lines
- Semi-transparent sight gauges
- Ideal for drain lines

### Regulatory Compliance

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

## TWOP Hose Specifications

| Part Number | Inside Diameter |       | Operating Pressure |       | Minimum Bend Radius |       | A Cuff I.D. |      | B Cuff O.D. |      | D Internal Diameter |       | E Convolution O.D. |       | C Standard Cuff Length |      |
|-------------|-----------------|-------|--------------------|-------|---------------------|-------|-------------|------|-------------|------|---------------------|-------|--------------------|-------|------------------------|------|
|             | (in)            | (mm)  | (psi)              | (MPa) | (in)                | (mm)  | (in)        | (mm) | (in)        | (mm) | (in)                | (mm)  | (in)               | (mm)  | (in)                   | (mm) |
| 2804TWOP0   | 1/4             | 6.4   | 65                 | 0.45  | 0.75                | 19.1  | 0.25        | 6.4  | 0.31        | 7.9  | 0.24                | 6.1   | 0.43               | 10.9  | 0.75                   | 19.1 |
| 2806TWOP0   | 3/8             | 9.5   | 50                 | 0.34  | 1.00                | 25.4  | 0.38        | 9.7  | 0.44        | 11.2 | 0.36                | 9.1   | 0.55               | 14.0  | 0.75                   | 19.1 |
| 2808TWOP0   | 1/2             | 12.7  | 50                 | 0.34  | 2.00                | 50.8  | 0.50        | 12.7 | 0.57        | 14.5 | 0.48                | 12.2  | 0.69               | 17.5  | 1.00                   | 25.4 |
| 2812TWOP0   | 3/4             | 19.1  | 50                 | 0.34  | 2.75                | 69.9  | 0.75        | 19.1 | 0.84        | 21.3 | 0.72                | 18.3  | 1.03               | 26.2  | 1.00                   | 25.4 |
| 2816TWOP0   | 1               | 25.4  | 50                 | 0.34  | 4.00                | 101.6 | 1.00        | 25.4 | 1.10        | 27.9 | 0.91                | 23.1  | 1.22               | 31.0  | 1.50                   | 38.1 |
| 2824TWOP0   | 1-1/2           | 38.1  | 40                 | 0.28  | 6.00                | 152.4 | 1.50        | 38.1 | 1.63        | 41.4 | 1.41                | 35.8  | 1.87               | 47.5  | 2.00                   | 50.8 |
| 2832TWOP0   | 2               | 50.8  | 30                 | 0.21  | 7.50                | 190.5 | 2.00        | 50.8 | 2.13        | 54.1 | 1.90                | 48.3  | 2.43               | 61.7  | 2.00                   | 50.8 |
| 2840TWOP0   | 2-1/2           | 63.5  | 20                 | 0.14  | 8.00                | 203.2 | 2.38        | 60.5 | 2.50        | 63.5 | 2.50                | 63.5  | 3.60               | 91.4  | 2.00                   | 50.8 |
| 2848TWOP0   | 3               | 76.2  | 15                 | 0.10  | 9.00                | 228.6 | 2.55        | 64.8 | 2.70        | 68.6 | 3.00                | 76.2  | 3.70               | 94.0  | 3.00                   | 76.2 |
| 2864TWOP0   | 4               | 101.6 | 10                 | 0.07  | 10.00               | 254.0 | 3.45        | 87.6 | 3.68        | 93.5 | 4.00                | 101.6 | 4.68               | 118.9 | 3.00                   | 76.2 |

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. 2:1 burst/pressure rating.

## Construction

|                     |                                     |      |        |     |  |
|---------------------|-------------------------------------|------|--------|-----|--|
| Inner Tube:         | White PTFE                          |      |        |     |  |
| Reinforcement:      | -                                   |      |        |     |  |
| Temperature Rating: | -100°F to +450°F<br>-73°C to +232°C |      |        |     |  |
| Maximum Length:     | 1/4"                                | 100' | 1-1/2" | 70' |  |
|                     | 3/8"                                | 100' | 2"     | 50' |  |
|                     | 1/2"                                | 100' | 2-1/2" | 30' |  |
|                     | 3/4"                                | 70'  | 3"     | 30' |  |
|                     | 1"                                  | 65'  | 4"     | 20' |  |

## 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)
- Flare-Thru fitting technology available for hose sizes 3/4" to 4":
  - 150 lb. lap-joint style flanged
  - Female cam and groove
  - Sanitary clamp style
  - 304 and 316 stainless steel flanges available

## Common Media

- General chemical transfer
- Corn syrup
- Caustic solutions

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