



# Versilon™ TWOY Hose

## Polypropylene Braided Helically Convoluted Inner Tube Fluoropolymer Hose

Saint-Gobain Performance Plastics' Versilon TWOY hose is constructed with a PTFE convoluted inner tube and reinforced with polypropylene braid. The convoluted inner tube has open pitch helical convolutions to ensure smooth product flow. The polypropylene braid resists abrasion better than stainless steel reinforcements and reduces burn potential from accidental contact.

Versilon TWOY hose's inner tube has a non-stick surface and cleans easily with steam, caustics, solvents or other cleaning agents. All standard sizes are fully vacuum rated at room temperature.

### Features and Benefits

PTFE inner tube:

- 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

Polypropylene braid:

- Ultraviolet stabilized
- Offers good chemical resistance against many types of acids
- Resists abrasion better than stainless steel reinforcements
- Lightweight, with minimum force to bend
- Easy to transport, connect and disconnect
- Less strain on adjoining equipment/scales
- Braid fraying minimized, reducing risk of hand injuries from wire braid punctures
- Does not conduct internal heat as readily as stainless steel braided hoses
- Burn potential from accidental contact greatly reduced

### Typical Applications

- Sanitary transfer
- Food, flavors and syrups
- Solvent transfer
- Drain and sample lines
- Semi-transparent sight gauges
- Corrosive environments

### Regulatory Compliance

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

## TWOY 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)
12TWOY	3/4	19.1	1-3/8	34.9	250	1.72	1,000	6.89	2.75	69.9	29.9	760	0.23	0.34
16TWOY	1	25.4	1-1/2	38.1	250	1.72	1,000	6.89	4.00	101.6	29.9	760	0.30	0.45
20TWOY	1-1/4	31.8	1-7/8	47.6	200	1.38	800	5.52	4.50	114.3	29.9	760	0.50	0.74
24TWOY	1-1/2	38.1	2-1/8	54.0	200	1.38	800	5.52	5.00	127.0	29.9	760	0.55	0.82
32TWOY	2	50.8	2-5/8	66.7	150	1.03	600	4.14	6.00	152.4	29.9	760	0.80	1.19
40TWOY	2-1/2	63.5	3-3/8	85.7	120	0.83	480	3.31	12.00	304.8	29.9	760	1.00	1.49
48TWOY	3	76.2	4	101.6	100	0.69	400	2.76	13.00	330.2	29.9	760	1.35	2.01
64TWOY	4	101.6	CF	CF	CF	CF	CF	CF	CF	CF	29.9	760	CF	CF

### Important:

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

**Working Pressure** is given at room temperature. Decrease working pressure to 40 psig all sizes above 175°F.

**Vacuum Rating** all sizes = 29.9" Hg at 70°F. Decrease vacuum rating 1% for every 2°F above 150°F; 1-1/4" rated at 26" Hg; 1-1/2" rated at 24" Hg; 2" rated at 20" Hg when installed less than 2X minimum bend radius.

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. CF = Consult factory.

## Construction

Inner Tube:	White PTFE			
Reinforcement:	Polypropylene braid -Each strand of large diameter (denier) polypropylene monofilament is twisted and subsequently twined prior to braiding -Tested for maximum abrasion and chemical resistance -Tightly woven braid offers excellent abrasion resistance			
Temperature Rating:	-40°F to +250°F -40°C to +121°C			
Maximum Length:	3/4"	70'	2"	50'
	1"	65'	2-1/2"	30'
	1-1/4"	45'	3"	30'
	1-1/2"	70'	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:
  - 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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