

Versilon[®] TWOK Hose

PVDF BRAIDED HELICALLY CONVOLUTED INNER TUBE FLUOROPOLYMER HOSE

Saint-Gobain's Versilon[®] TWOK hose is constructed with a PTFE convoluted inner tube and reinforced with PVDF braid. The convoluted inner tube has open pitch helical convolutions to ensure smooth product flow. The PVDF braid is ideal for severe applications where external corrosion from the presence of strong acids will attack standard stainless steel braid.

Versilon[®] TWOK 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.

Typical Applications

- Sanitary transfer
- Food, flavors and syrups
- Solvent transfer
- Drain and sample lines
- Semi-transparent sight gauges
- Corrosive environments (external)
- Liquid chlorine and bromine transfer
- Chlorinated fluid and gas transfer

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

PVDF braid:

- For severe applications where external corrosion from the presence of strong acids will attack standard stainless steel braid
- Ultraviolet stabilized

Regulatory Compliance

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



Versilon® TWOK Hose

Versilon® TWOK 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)
12TWOK	3/4	19.1	1-1/8	28.6	200	1.38	800	5.52	3.00	76.2	29.9	760	0.25	0.37
16TWOK	1	25.4	1-3/8	34.9	200	1.38	800	5.52	4.00	101.6	29.9	760	0.35	0.52
24TWOK	1-1/2	38.1	2-1/8	54.0	175	1.21	700	4.83	5.00	127.0	29.9	760	0.65	0.97
32TWOK	2	50.8	2-9/16	65.1	150	1.03	600	4.14	6.00	152.4	29.9	760	0.90	1.34
48TWOK	3	76.2	3-7/8	98.4	100	0.69	400	2.76	12.00	304.8	29.9	760	1.50	2.23

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 50 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 175°F; 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.

Construction

Inner Tube:	White PTFE			
Reinforcement:	Heavy duty PVDF monofilament			
Temperature Rating:	-40°F to +275°F -40°C to +135°C			
Maximum Length:	3/4" 1" 1-1/2"	70' 65' 70'	2" 3"	50' 30'

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
- Liquid chlorine
- Bromine

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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