



Versilon® TWOB/TWOBHV Hose

STAINLESS STEEL BRAIDED HELICALLY CONVOLUTED INNER TUBE FLUOROPOLYMER HOSE

Saint-Gobain's Versilon® TWOB/TWOBHV hose is constructed with a PTFE convoluted inner tube and reinforced with 316 stainless steel braid. The convoluted inner tube has open pitch helical convolutions to ensure smooth product flow. Versilon® TWOBHV hose is a fully rated vacuum hose recommended for full vacuum applications and is offered in sizes 1-1/2" inner diameter and above.

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

Typical Applications

- Sanitary transfer
- Food, flavors and syrups
- Solvent transfer
- Drain and sample lines



Features and Benefits

PTFE inner tube:

- Excellent chemical resistance
- Compatible with many fluid types
- 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

Regulatory Compliance

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



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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)
8TWOB	1/2	12.7	3/4	19.1	500	3.45	2,000	13.79	2.00	50.8	25.0	635	0.20	0.30
12TWOB	3/4	19.1	1-1/8	28.6	425	2.93	1,700	11.72	2.75	69.9	25.0	635	0.30	0.45
16TWOB	1	25.4	1-1/4	31.8	350	2.41	1,400	9.65	4.00	101.6	25.0	635	0.40	0.60
20TWOB	1-1/4	31.8	1-5/8	41.3	337	2.32	1,350	9.31	5.50	139.7	25.0	635	0.70	1.04
24TWOB*	1-1/2	38.1	2	50.8	275	1.90	1,100	7.58	7.00	177.8	29.9	760	0.75	1.12
32TWOB*	2	50.8	2-1/2	63.5	250	1.72	1,000	6.89	8.50	215.9	29.9	760	1.05	1.56
40TWOB*	2-1/2	63.5	3-1/8	79.4	212	1.46	850	5.86	13.00	330.2	29.9	760	1.35	2.01
48TWOB*	3	76.2	3-7/8	98.4	175	1.21	700	4.83	14.00	355.6	29.9	760	1.75	2.60
64TWOB*	4	101.6	5	127.0	150	1.03	600	4.14	16.00	406.4	29.9	760	2.10	3.13

⚠ 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 70°F; decrease working pressure 1% for every 2°F above 250°F.

Vacuum Rating is given at 70°F; decrease vacuum rating 1% for every 2°F above 250°F. Vacuum rating decreases when installed at less than 2X minimum bend radius. TWOBHV series allows full vacuum ratings for 1-1/2", 2" and 2-1/2" sizes up to 350°F; decrease vacuum rating 1% for every 2°F above 350°F. Vacuum rating at less than 2X minimum bend radius: 1-1/4" = 26" Hg; 1-1/2" = 25" Hg; 2" = 20" Hg; 2-1/2" = 17" Hg; 3" = 20" Hg; 4" = 17" Hg.

Extended Service Life Tip: Saint-Gobain suggests using full-length anti-kink armor casing or at least 16" to 24" long anti-kink cuffs at each fitting end to help reduce the strain on the crimp collar and fittings in high load installations. Prolonged service at elevated temperatures will reduce total service life.

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. *Add HV to indicate vacuum rated series.

Construction

Inner Tube:	White PTFE			
Reinforcement:	316 stainless steel braid			
Temperature Rating:	-100°F to +450°F -73°C to +232°C			
Maximum Length:	1/2" 3/4" 1" 1-1/4" 1-1/2"	100' 70' 65' 45' 70'	2" 2-1/2" 3" 4"	50' 30' 30' 20'
TBOBHV Series:	Fully rated vacuum hose Recommended for full vacuum applications Should always be used for 2-1/2", 3" and 4" ID assemblies			

Important: Hose assemblies may be autoclaved; however, flare faces of Flare-Thru fittings must be clamped down to prevent damage to sealing surface.

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
 - 1/2" mini sanitary Flare-Thru available using 3/8" ID open pitch hose

Common Media

- General chemical transfer
- Corn syrup
- Caustic solutions

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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NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

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