Tygopure[™] Monobarb Sanitary Fittings Style T-SB



Tygopure™ fittings feature a seamless and tapered fluid path, minimizing agitation of sensitive fluids.

Secure Attachments Minimize Potential for Fluid Leakage

Quick and secure sanitary tubing attachments are critical in numerous low-pressure laboratory, biotechnology and pharmaceutical applications. Contamination of fluids and product loss through leakage can be costly. Tygopure™ Monobarb Sanitary Fittings provide a superior connection to tubing through a single-barb construction, reducing the potential for leakage. In addition, tubing clamps are secured to Tygopure™ fittings behind the barbed area. This limits the risk of flexible tubing being cut from a sharp, barbed edge and provides for attachment to a smooth surface.

Designed for Gentle Fluid Handling

Molded seams and abrupt angles, frequently found in other fitting designs, can cause turbulence ("dead space") or stagnation of fluid flow, creating areas for potential bacterial growth. Tygopure™ Monobarb Fittings are entirely free of these seams and angles, eliminating both potential problems. The exterior surface of Tygopure™ Monobarb Fittings is designed to reduce potential contamination from wicking fluids by eliminating seams near fluid entry points. Each Tygopure™ fitting has a gradual taper between the inlet and the main body of the connector. This taper, along with an ultra-smooth inner surface, permits a more even and undisturbed passage of fluid, and facilitates complete cleaning.

Available in Three Polymer Choices

Tygopure™ Monobarb Sanitary Fittings, Style T-SB, are available in the following polymers: PVDF, polypropylene and polysulfone. These materials are all radiation sterilizable.

Ideal for Use with Saint-Gobain Performance Plastics Tubing

Tygopure™ Monobarb Sanitary Fittings have been engineered to provide a sanitary connection point for fluids transported through flexible tubings.

Saint-Gobain Performance Plastics has a broad line of flexible tubing formulations that are ideally suited for use in conjunction with these sanitary fittings. Contact your customer service representative on the most frequently specified tubings for sanitary applications.

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Tygopure™ Monobarb Sanitary Fittings are designed for use with flexible tubing in low-pressure sanitary applications.

Features/Benefits

- Smooth Inner Surface Limits Particle Entrapment
- Streamlined Fluid Path Improves Flow of Sensitive Fluids
- Monobarb Design Helps to Ensure Secure Tubing Connections
- One-Piece Construction Minimizes Risk of Leakage
- Available in Three Polymer Materials, all Radiation Sterilizable
- Produced from Materials that Meet USP Class VI

Typical Applications

- Media Mixing Containers
- Bioreactors
- Fermentors
- Bioprocess Containers
- Filtration and Purification Systems
- Sample Ports
- Filling Machines
- Flexible Packaging Systems



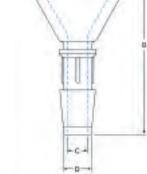
Tygopure™ Sanitary Fittings, Style T-SB Inventoried Sizes and Dimensions

Part		Max. Working Pressures* (psi) at 72°F at 200°F at 275°F			Tubing I.D.	3			
Number	Material	(22.2°C)	(93.3°C)	(135°C)	(inches)	Α	В	C	D
ATP250PPSB	Polypropylene	200	100	_	1/4	.985	1.593	.188	.250
ATP375PPSB	Polypropylene	200	100	_	3/8	.985	1.688	.300	.375
ATP500PPSB	Polypropylene	200	100	_	1/2	.985	1.800	.400	.500
ATP250PFSB	PVDF	250	200	_	1/4	.985	1.593	.188	.250
ATP375PFSB	PVDF	250	200	_	3/8	.985	1.688	.300	.375
ATP500PFSB	PVDF	250	200	_	1/2	.985	1.800	.400	.500
ATP250PSSB	Polysulfone	250	225	200	1/4	.985	1.593	.188	.250
ATP375PSSB	Polysulfone	250	225	200	3/8	.985	1.688	.300	.375
ATP500PSSB	Polysulfone	250	225	200	1/2	.985	1.800	.400	.500

^{*}The values listed are recommended maximum working pressures of the fittings themselves. The type of tubing and clamping system used will determine overall working pressure of the assembly. Your actual system pressure capability could be lower based on tubing and clamping used.

Relative Chemical Resistance by Material at Room Temperature

		Acids			Bases	Aliphatic	
Material	conc.	med.	weak	conc.	med.	weak	Hydrocarbons
Polypropylene	2	1	1	1	1	1	2
PVDF	2	1	1	2	1	1	1
Polysulfone	3	1	1	2	1	1	1
Material	Salts		Alcohols		Ketones		Chlorinated Solvents
Polypropylene	1			1		2	3
PVDF	1		1		2		1
Polysulfone	1		2		4		4
1=No Effect 2=Slight Effect		3=Mild Effect; Softening or Swelling				=Severe Degradation	



Typical Physical Properties

Property	Polypropylene	PVDF	Polysulfone
Tensile Strength, psi (MPa) ASTM D638-91	4,000 (27.6)	6,000 (41.3)	10,000 (68.9)
Flexural Modulus, psi (MPa) ASTM D790-92	140,000 (964.6)	260,000 (1,791.4)	390,000 (2,687.1)
Hardness (Shore D) ASTM D2240-91	72	78	90
Heat Deflection ASTM D648-82 °F (°C) @66 psi °F (°C) @264 psi	189 (87) —	266 (130) 221 (105)	 345 (174)
Water Absorption (%) ASTM D570-81	0.01	0.03	0.30
Maximum Recommended Working Temperature °F (°C)	200 (93)	200 (93)	275 (135)

Tygopure™ is a trademark

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Come through clean.™

Saint-Gobain Performance Plastics-Clearwater

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IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

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