



International Filter Products

Revolutionary systems for your industry

Pure-Fit® SIB®

Smooth Inner Bore Systems

Pure-Fit® SIB® is a smooth inner bore (SIB) hose-barb connector that provides a seamless transition between tubing and fittings throughout the fluid path. Pure-Fit SIB eliminates entrapment and leak points that can occur with traditional assembly systems. The unique internal design eliminates voids or dead space that can lead to turbulence or stagnation of fluid flow, creating the potential for bacterial growth.

Pure-Fit® SIB® fittings are fully compatible with Pure-Fit and BarbLock® retainers that provide complete 360° compression for leak-free connections.

Pure-Fit® SIB® fitting systems meet all USP Class VI and ISO criteria and have been physically tested to meet the most demanding applications and stringent test protocols.



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Pure-Fit® SIB®
Smooth Inner Bore Systems



Tri-Clamp Series



Mini Tri-Clamp Series



Connector Series



Reducer Series



Tee Series



Wye Series



Cross Series



Elbow Series

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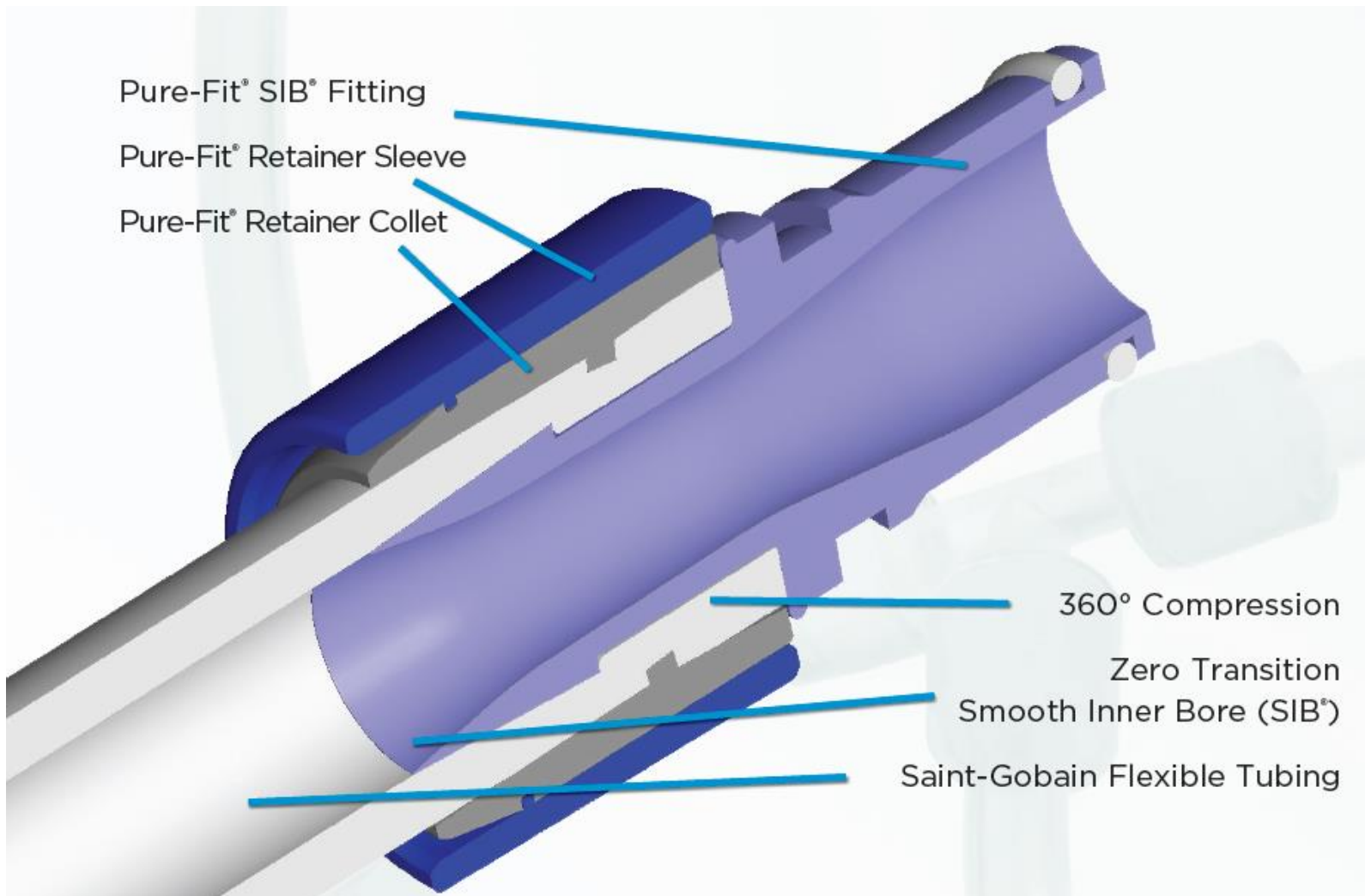
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Compatibility & Leak-Free Connection (360° compression):

Pure-Fit® SIB® is compatible with any Saint-Gobain Bio-processing tubing such as C-Flex, Sani-Tech Platinum-cured silicone, Pharmed, etc.

Saint-Gobain guarantees leak-free 360° compression of the fittings with BarbLock® retainers.



BarbLock Retainers ensure smooth flow through the inner bore while maintaining leak-free 360° compression.

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Application

- Biopharmaceutical manufacturing
- Product Sampling
- Ideal For Use in Single-Use Assemblies
- Cell Culture and Harvest
- Filtration
- Downstream activities

Technical Data Sheet

Features and Benefits:

- ❖ Total smooth inner bore (SIB) transition design.
- ❖ Sterilizable by gamma irradiation.
- ❖ No excessive voids at the interface or in the fluid path.
- ❖ Eliminates entrapment and leak points that occur with traditional fitting systems.
- ❖ Utilizes the patented Barb Lock retention and seal system.
- ❖ Complete 360° compression along the entire fitting system.
- ❖ All materials are completely animal-free and BPA-free.
- ❖ Manufactured and packaged in a certified clean room.
- ❖ All-inclusive Validation Guide and the Regulatory Information Overview (RIO) are available for customers upon request.

Physical Properties:

Property	ASTM Method	Formulations Value
Tensile Strength	D638-91	4,450 psi / 31.0 Mpa
Flexural Modulus	D790-92	140,000 psi / 966.0 Mpa
Hardness (Shore D)	D2240-91	85
Heat Deflection @ 66 psi	D648-82	178 °F / 81 °C
Water Absorption	D570-81	0.01 %
Max. Recommended Working Temperature		200 °F / 90 °C

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Sterilization Methods:

- Gamma Irradiation
- Autoclavable*

*Assembled connectors may deform during certain autoclave conditions. It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Life Sciences connectors for all intended uses.

Regulatory Compliance (Biocompatibility, Physicochemical & Extractable Testing):

Summary of Results: Pure-Fit® SIB® Polypropylene (Validation Summary)		
Method Description	Reference Standard	Result
Genotoxicity Test	ISO 10993-3	Meets Criteria
Hemolysis	ASTM F756-08	Meets Criteria
In Vitro Cytotoxicity	ISO10993-5	Meets Criteria
Tests for Irritation and Skin Sensitization	ISO 10993-10	Meets Criteria
Tests for Systemic Toxicity: Systemic Injection	ISO 10993-11	Meets Criteria
Tests of Local Effects after Implantation	ISO 10993-6	Meets Criteria
Bacterial Endotoxin	USP <85>	< 0.06EU/mL
Tests for Systemic Toxicity: Rabbit Pyrogen Test	ISO 10993-11, USP<151>	Meets Criteria
Elastomeric Closures for Injection	USP <381>	Meets Criteria
Total Organic Carbon	USP <643>	Meets Criteria
Physicochemical Tests for Plastics	USP <661>	Meets Criteria
Elastomeric Closures for Injection	USP <381>	Meets Criteria
Physicochemical Tests for Plastics	USP <661>	Meets Criteria
Total Extractables in Rubber Articles Intended for Repeated Use	21CFR Part 177.2600	Meets Criteria
Extractables Data	Saint-Gobain Protocol	N/A

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Pure-Fit® SIB® Polypropylene Ordering Guide:

Tri-Clamp Series

Part Number	ID Inches (mm)	Description	Material
PFLS250PPAF	1/4" (6.4 mm)	Tri-Clamp to Hose Barb Adapter	Polypropylene
PFLS375PPAF	3/8" (9.5 mm)	Tri-Clamp to Hose Barb Adapter	Polypropylene
PFLS500PPAF	1/2" (12.7 mm)	Tri-Clamp to Hose Barb Adapter	Polypropylene
PFLS750PPAF	3/4" (19.1 mm)	Tri-Clamp to Hose Barb Adapter	Polypropylene

Mini Tri-Clamp Series

Part Number	ID Inches (mm)	Description	Material
PFMS125PPAF	1/8" (3.2 mm)	Mini Tri-Clamp to Hose Barb Adapter	Polypropylene
PFMS250PPAF	1/4" (6.4 mm)	Mini Tri-Clamp to Hose Barb Adapter	Polypropylene
PFMS312PPAF	5/16" (8 mm)	Mini Tri-Clamp to Hose Barb Adapter	Polypropylene
PFMS375PPAF	3/8" (9.5 mm)	Mini Tri-Clamp to Hose Barb Adapter	Polypropylene
PFMS500PPAF	1/2" (12.7 mm)	Mini Tri-Clamp to Hose Barb Adapter	Polypropylene
PFMS625PPAF	5/8" (15.9 mm)	Mini Tri-Clamp to Hose Barb Adapter	Polypropylene

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Connector Series

Part Number	ID Inches (mm)	Description	Material
PFC125PPAF	1/8" (3.2 mm)	Hose Barb to Hose Barb Connector	Polypropylene
PFC187PPAF	3/16" (4.8 mm)	Hose Barb to Hose Barb Connector	Polypropylene
PFC250PPAF	1/4" (6.4 mm)	Hose Barb to Hose Barb Connector	Polypropylene
PFC312PPAF	5/16" (8 mm)	Hose Barb to Hose Barb Connector	Polypropylene
PFC375PPAF	3/8" (9.5 mm)	Hose Barb to Hose Barb Connector	Polypropylene
PFC500PPAF	1/2" (12.7 mm)	Hose Barb to Hose Barb Connector	Polypropylene

Wye Series

Part Number	ID Inches (mm)	Description	Material
PFY125PPAF	1/8" (3.2 mm)	Hose Barb – Wye (Y) Connector	Polypropylene
PFY250PPAF	1/4" (6.4 mm)	Hose Barb – Wye (Y) Connector	Polypropylene
PFY312PPAF	5/16" (8 mm)	Hose Barb – Wye (Y) Connector	Polypropylene
PFY375PPAF	3/8" (9.5 mm)	Hose Barb – Wye (Y) Connector	Polypropylene
PFY500PPAF	1/2" (12.7 mm)	Hose Barb – Wye (Y) Connector	Polypropylene

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Tee Series

Part Number	ID Inches (mm)	Description	Material
PFT125PPAF	1/8" (3.2 mm)	Hose Barb – Tee (T) Connector	Polypropylene
PFT187PPAF	3/16" (4.8 mm)	Hose Barb – Tee (T) Connector	Polypropylene
PFT250PPAF	1/4" (6.4 mm)	Hose Barb – Tee (T) Connector	Polypropylene
PFT312PPAF	5/16" (8 mm)	Hose Barb – Tee (T) Connector	Polypropylene
PFT375PPAF	3/8" (9.5 mm)	Hose Barb – Tee (T) Connector	Polypropylene
PFT500PPAF	1/2" (12.7 mm)	Hose Barb – Tee (T) Connector	Polypropylene
PFT750PPAF	3/4" (19.1 mm)	Hose Barb – Tee (T) Connector	Polypropylene

Cross Series

Part Number	ID Inches (mm)	Description	Material
PFX125PPAF	1/8" (3.2 mm)	Hose Barb – Cross Connector	Polypropylene
PFX187PPAF	3/16" (4.8 mm)	Hose Barb – Cross Connector	Polypropylene
PFX250PPAF	1/4" (6.4 mm)	Hose Barb – Cross Connector	Polypropylene
PFX375PPAF	3/8" (9.5 mm)	Hose Barb – Cross Connector	Polypropylene
PFX500PPAF	1/2" (12.7 mm)	Hose Barb – Cross Connector	Polypropylene

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Elbow Series

Part Number	ID Inches (mm)	Description	Material
PFE250PPAF	1/4" (6.4 mm)	Hose Barb – Elbow Connector	Polypropylene
PFE375PPAF	3/8" (9.5 mm)	Hose Barb – Elbow Connector	Polypropylene
PFE500PPAF	1/2" (12.7 mm)	Hose Barb – Elbow Connector	Polypropylene

Reducer Series

Part Number	ID Inches (mm)	Description	Material
PFR062X125PPAF	1/16" x 1/8" (1.6 x 3.2 mm)	Hose Barb to Hose Barb Reducer	Polypropylene
PFR062X250PPAF	1/16" x 1/4" (1.6 x 6.4 mm)	Hose Barb to Hose Barb Reducer	Polypropylene
PFR125X187PPAF	1/8" x 3/16" (3.2 x 4.8 mm)	Hose Barb to Hose Barb Reducer	Polypropylene
PFR125X250PPAF	1/8" x 1/4" (3.2 x 6.4 mm)	Hose Barb to Hose Barb Reducer	Polypropylene
PFR187X312PPAF	3/16" x 5/16" (4.8 x 8.0 mm)	Hose Barb to Hose Barb Reducer	Polypropylene
PFR187X375PPAF	3/16" x 3/8" (4.8 x 9.5 mm)	Hose Barb to Hose Barb Reducer	Polypropylene
PFR250X375PPAF	1/4" x 3/8" (6.4 x 9.5 mm)	Hose Barb to Hose Barb Reducer	Polypropylene
PFR250X500PPAF	1/4" x 1/2" (6.4 x 12.7 mm)	Hose Barb to Hose Barb Reducer	Polypropylene
PFR375X500PPAF	3/8" x 1/2" (9.5 x 12.7 mm)	Hose Barb to Hose Barb Reducer	Polypropylene

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Retainer Series



Part Number	ID Inches (mm)	Description	Material
PF135062PPAF-AL	1/16" (1.6 mm)	BarbLock® Retainers for 360° compression	Polypropylene
PF135125PPAF-AL	1/8" (3.2 mm)	BarbLock® Retainers for 360° compression	Polypropylene
PF135187PPAF-AL	3/16" (4.8 mm)	BarbLock® Retainers for 360° compression	Polypropylene
PF135250PPAF	1/4" (6.4 mm)	BarbLock® Retainers for 360° compression	Polypropylene
PF135312PPAF-AL	5/16" (8 mm)	BarbLock® Retainers for 360° compression	Polypropylene
PF135375PPAF	3/8" (9.5 mm)	BarbLock® Retainers for 360° compression	Polypropylene
PF135500PPAF	1/2" (12.7 mm)	BarbLock® Retainers for 360° compression	Polypropylene
PF135750PPAF-AL	3/4" (19.1 mm)	BarbLock® Retainers for 360° compression	Polypropylene

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Country of Origin:

Pure-Fit® SIB® Product is manufactured in the United States of America.

Pure-Fit® SIB® Product is only manufactured in the United States of America.

Alternative Material:

Pure-Fit® SIB® can also be manufactured from Polyvinylidene fluoride or PVDF material.

Pure-Fit® SIB® Shelf Life and Storage:

Pure-Fit® SIB® products have a shelf life of 4 years from the date of manufacture when stored in the original unopened packaging at ambient temperature and humidity. Given that all possible variables cannot be examined as it is cost prohibitive, it is best practice to store the product in its original packaging, protected from known sources of polymer degradation such as temperature, humidity, sunlight/fluorescent light/UV, exhaust gases, chemical environment, mechanical stress, etc.

NOTE: This claim is for non-sterile and non-irradiated product. After being exposed to the conditions listed above, the Pure-Fit® SIB® still satisfied their respective product release acceptance criteria of USP Class VI compliant, non-cytotoxic, non-Hemolytic, and resin physical properties. However, users of Pure-Fit® SIB® are encouraged and recommended to periodically inspect the product in inventory for any visible signs of abnormality and test for properties suitable and specific to the end users' application and use.

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