



# Pure Fit SIB<sup>®</sup>

Smooth Inner Bore Systems

Seamless  
Transitions  
for Complete  
Fluid Integrity

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## Smooth Inner Bore Systems



### Seamless Transitions

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.

### Maintain Fluid Integrity

Available in both animal-free polypropylene (PP) and polyvinylidene fluoride (PVDF) materials, Pure-Fit SIB provides a seamless transition that maintains complete fluid integrity when used with Saint-Gobain's Sani-Tech<sup>®</sup>, C-Flex<sup>®</sup> and PharMed<sup>®</sup> flexible tubing.

### Leak-free Connections

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

### Biocompatibility

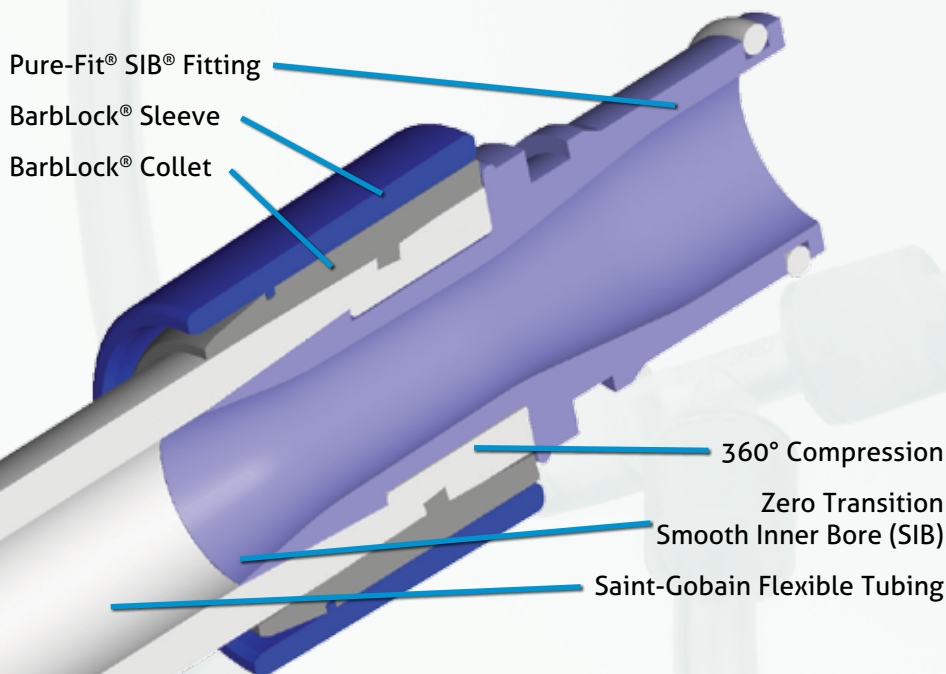
Pure-Fit SIB fitting systems meet all USP Class VI and ISO criteria and have been physically tested to meet the most demanding applications and stringent test protocols.

### Features/Benefits

- Total smooth inner bore (SIB) transition design
- Eliminates entrapment and leak points that occur with traditional fitting systems
- Complete 360° compression along the entire fitting system
- No excessive voids at the interface or in the fluid path
- Utilizes the patented BarbLock retention and seal system
- Compatible with Saint-Gobain Sani-Tech, C-Flex and PharMed flexible tubing
- PP is gamma stable
- PVDF is autoclaveable and gamma stable
- All materials completely animal-free and BPA-free
- Manufactured and packaged in a certified clean room
- USP VI compliant
- Validation guide available

### Typical Applications

- Biopharmaceutical manufacturing
- Media hydration
- Filtration
- Cell culture/harvest
- Product sampling
- Downstream activities



## Tri-Clamp Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PFLS250PPAF	PFLS250PVDF	Tri-Clamp	1/4 (6.4)	250 psi	100 psi
PFLS375PPAF	PFLS375PVDF	Tri-Clamp	3/8 (9.5)	250 psi	100 psi
PFLS500PPAF	PFLS500PVDF	Tri-Clamp	1/2 (12.7)	250 psi	100 psi
PFLS750PPAF	PFLS750PVDF	Tri-Clamp	3/4 (19.1)	250 psi	100 psi



## Mini Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PFMS125PPAF	PFMS125PVDF	Mini	1/8 (3.2)	250 psi	100 psi
PFMS250PPAF	PFMS250PVDF	Mini	1/4 (6.4)	250 psi	100 psi
PFMS375PPAF	PFMS375PVDF	Mini	3/8 (9.5)	250 psi	100 psi
PFMS500PPAF	PFMS500PVDF	Mini	1/2 (12.7)	250 psi	100 psi
PFMS625PPAF	PFMS625PVDF	Mini	5/8 (15.9)	250 psi	100 psi



## Connector Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PFC125PPAF	PFC125PVDF	Connector	1/8 (3.2)	250 psi	100 psi
PFC187PPAF	PFC187PVDF	Connector	3/16 (4.8)	250 psi	100 psi
PFC250PPAF	PFC250PVDF	Connector	1/4 (6.4)	250 psi	100 psi
PFC312PPAF	PFC312PVDF	Connector	5/16 (8.0)	250 psi	100 psi
PFC375PPAF	PFC375PVDF	Connector	3/8 (9.5)	250 psi	100 psi
PFC500PPAF	PFC500PVDF	Connector	1/2 (12.7)	250 psi	100 psi



## Reducer Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PFR062X125PPAF	PFR062X125PVDF	Reducer	1/16 x 1/8 (1.6 x 3.2)	250 psi	100 psi
PFR062X250PPAF	PFR062X250PVDF	Reducer	1/16 x 1/4 (1.6 x 6.4)	250 psi	100 psi
PFR125X187PPAF	PFR125X187PVDF	Reducer	1/8 x 3/16 (3.2 x 4.8)	250 psi	100 psi
PFR125X250PPAF	PFR125X250PVDF	Reducer	1/8 x 1/4 (3.2 x 6.4)	250 psi	100 psi
PFR187X312PPAF	PFR187X312PVDF	Reducer	3/16 x 5/16 (4.8 x 8.0)	250 psi	100 psi
PFR187X375PPAF	PFR187X375PVDF	Reducer	3/16 x 3/8 (4.8 x 9.5)	250 psi	100 psi
PFR250X375PPAF	PFR250X375PVDF	Reducer	1/4 x 3/8 (6.4 x 9.5)	250 psi	100 psi
PFR250X500PPAF	PFR250X500PVDF	Reducer	1/4 x 1/2 (6.4 x 12.7)	250 psi	100 psi
PFR375X500PPAF	PFR375X500PVDF	Reducer	3/8 x 1/2 (9.5 x 12.7)	250 psi	100 psi





## Wye Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PFY125PPAF	PFY125PVDF	Wye	1/8 (3.2)	250 psi	100 psi
PFY250PPAF	PFY250PVDF	Wye	1/4 (6.4)	250 psi	100 psi
PFY312PPAF	PFY312PVDF	Wye	5/16 (8.0)	250 psi	100 psi
PFY375PPAF	PFY375PVDF	Wye	3/8 (9.5)	250 psi	100 psi
PFY500PPAF	PFY500PVDF	Wye	1/2 (12.7)	250 psi	100 psi



## Tee Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PFT125PPAF	PFT125PVDF	Tee	1/8 (3.2)	250 psi	100 psi
PFT187PPAF	PFT187PVDF	Tee	3/16 (4.8)	250 psi	100 psi
PFT250PPAF	PFT250PVDF	Tee	1/4 (6.4)	250 psi	100 psi
PFT312PPAF	PFT312PVDF	Tee	5/16 (8.0)	250 psi	100 psi
PFT375PPAF	PFT375PVDF	Tee	3/8 (9.5)	250 psi	100 psi
PFT500PPAF	PFT500PVDF	Tee	1/2 (12.7)	250 psi	100 psi
PFT750PPAF	PFT750PVDF	Tee	3/4 (19.1)	250 psi	100 psi



## Cross Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PFX125PPAF	PFX125PVDF	Cross	1/8 (3.2)	250 psi	100 psi
PFX187PPAF	PFX187PVDF	Cross	3/16 (4.8)	250 psi	100 psi
PFX250PPAF	PFX250PVDF	Cross	1/4 (6.4)	250 psi	100 psi
PFX375PPAF	PFX375PVDF	Cross	3/8 (9.5)	250 psi	100 psi
PFX500PPAF	PFX500PVDF	Cross	1/2 (12.7)	250 psi	100 psi



## Elbow Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PFE250PPAF	PFE250PVDF	Elbow	1/4 (6.4)	250 psi	100 psi
PFE375PPAF	PFE375PVDF	Elbow	3/8 (9.5)	250 psi	100 psi
PFE500PPAF	PFE500PVDF	Elbow	1/2 (12.7)	250 psi	100 psi



## Retainer Series

Part Number		Description	I.D. inches (mm)	Max Working Pressure (psi)	
Polypropylene	PVDF			at 72°F (22.2°C)	at 200°F (93.3°C)
PF135062PPAF-AL	PF135062PVDF-AL	Retainer	1/16 (1.6)	250 psi	100 psi
PF135125PPAF-AL	PF135125PVDF-AL	Retainer	1/18 (3.2)	250 psi	100 psi
PF135187PPAF-AL	PF135187PVDF-AL	Retainer	3/16 (4.8)	250 psi	100 psi
PF135250PPAF	PF135250PVDF	Retainer	1/4 (6.4)	250 psi	100 psi
PF135312PPAF-AL	PF135312PVDF-AL	Retainer	5/16 (8.0)	250 psi	100 psi
PF135375PPAF	PF135375PVDF	Retainer	3/8 (9.5)	250 psi	100 psi
PF135376PPAF	PF135376PVDF	Retainer	3/8 (9.5)	250 psi	100 psi
PF135500PPAF	PF135500PVDF	Retainer	1/2 (12.7)	250 psi	100 psi
PF135750PPAF-AL	PF135750PVDF-AL	Retainer	3/4 (19.1)	250 psi	100 psi



## Pure-Fit SIB Typical Physical Properties

Property	Polypropylene	PVDF
Tensile Strength psi (MPa) ASTM D638-91	4,450 (31.0)	6,300 (43.3)
Flexible Modulus, psi (MPa) ASTM D790-92	140,000 (966.0)	290,000 (2,000.0)
Hardness (Shore D) ASTM D2240-91	85	78
Heat Deflection ASTM D648-82 °F (°C) @66psi	178 (81)	266 (130)
°F (°C) @264psi	-	221 (105)
Water Absorption (%) ASTM D570-81	0.01	0.03
Max. Recommended Working Pressure °F (°C)	200 (93)	275 (135)

**PURE-FIT® SIB® IS NOT INTENDED FOR USE  
AS AN IMPLANT MATERIAL**

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# Pure Fit SIB®

## Smooth Inner Bore Systems

Seamless Transitions for Complete Fluid Integrity

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