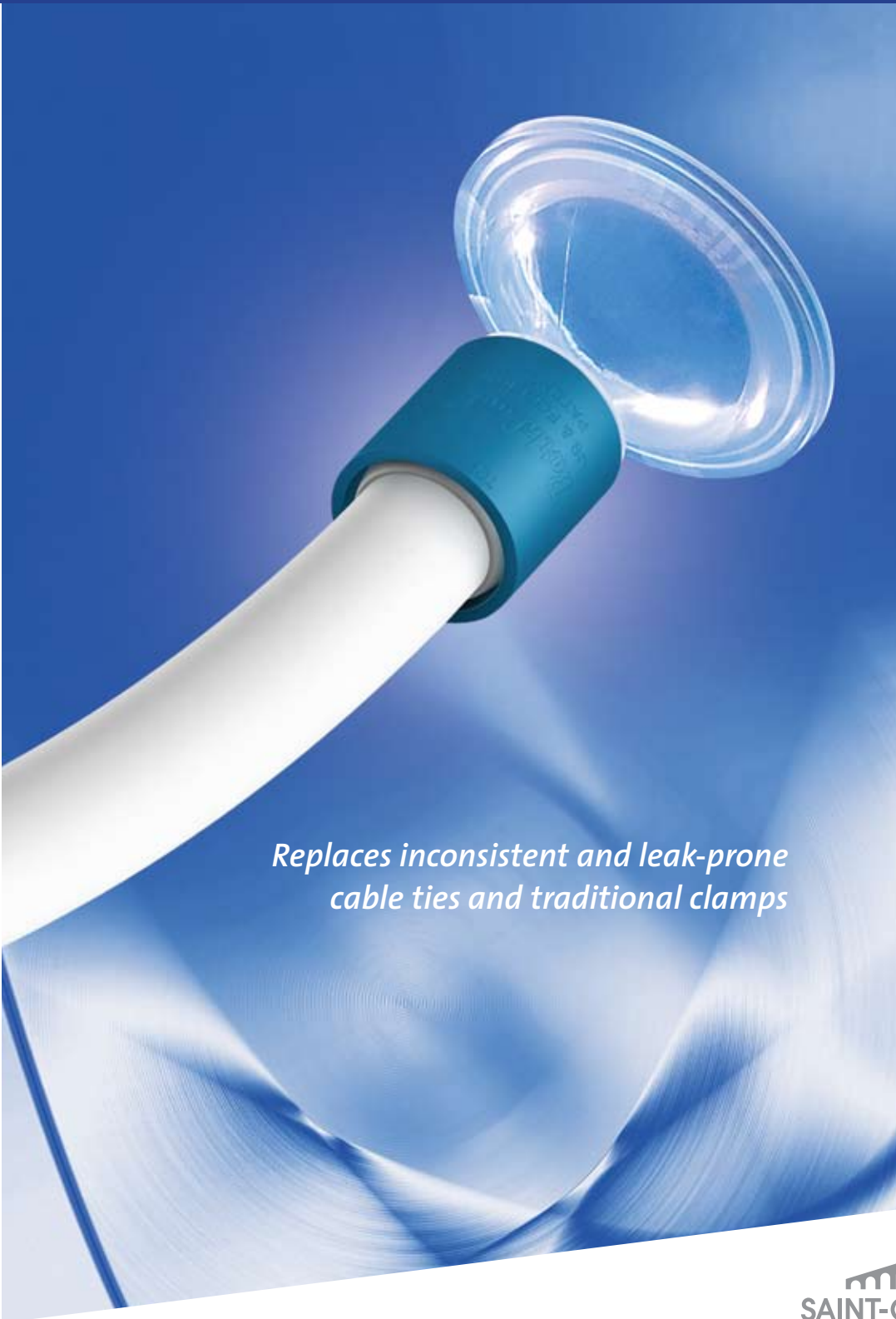


# *BarbLock*<sup>®</sup>

*The Ultra-Secure Tubing Retainer*



*Replaces inconsistent and leak-prone  
cable ties and traditional clamps*



# BarbLock® *The Ultra-Secure Tubing Retainer*

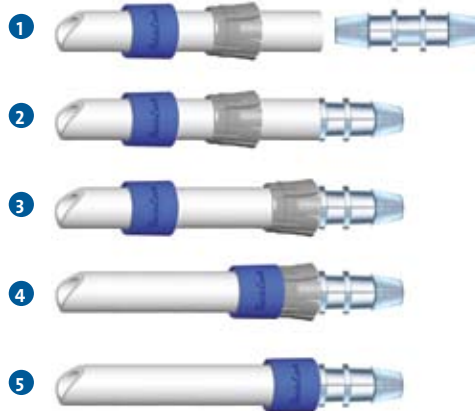
When it comes to retaining flexible tubing and hose onto barbed fittings, the BarbLock® retainer is the most advanced product currently available. BarbLock® is the only retainer with a full 360-degree radial crimp behind the barb and 360 degrees of compression directly over the barb's ridge, a design that solves inherent leak path problems in demanding fluid transfer applications.

BarbLock® retainers are constructed from high-performance polypropylene that meets USP Class VI criteria. They require no adhesives or solvents — making them particularly well suited to systems that handle sensitive liquids and gases — and are available in high temperature materials for thermally demanding environments. The system is also quick and easy to assemble.

BarbLock® retainers have become the standard in many biopharmaceutical, medical and laboratory applications because of their ability to ensure leak-free connections between fittings and tubes.

## How BarbLock® Works

1. Load sleeve and collet, leading with ends marked "Top"
2. Install barbed fitting
3. Move collet to base of tube
4. Lower sleeve over collet to pre-locked position
5. Lock assembly with BarbLock® tool



## Features/Benefits

- Compatible with all flexible tubing materials
- Full 360° radial crimp behind the barb
- 360° compression directly on the barb's ridge
- Eliminates solvent bonding, ultraviolet bonding and toxic adhesives
- Constructed with USP Class VI materials
- Custom color and identification options available
- Quick and easy to assemble

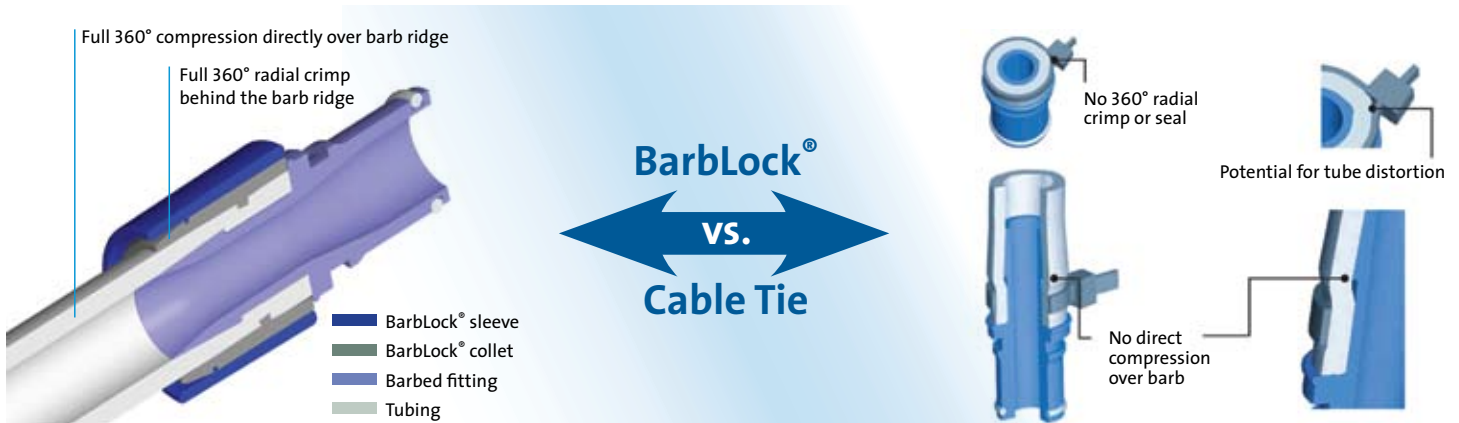
## Typical Applications

- Biopharmaceutical transport systems
- Flexible tubing and hose retainers
- Disposable assemblies
- Dialysis equipment
- IV assemblies
- Catheters and cardiovascular

## BarbLock® vs. Competing Retainer Systems

Single Retainer	Inherent Leak Path Removed	360° Radial Crimp Behind the Barb	360° Compression Over Barb Ridge	Integral Component Design	Engineered Composite Construction
BarbLock®	Yes	Yes	Yes	Yes	Yes
Cable Tie	No	No	No	No	No
Hose Clamp	No	No	No	No	No
Ear Clamp	No	No	No	No	No

BarbLock® has been tested to 700 PSI/BarbLock® is engineered for each combination of hose and fittings.



## Types of BarbLock® Retainers



### Standard two-piece retainer

The standard BarbLock® retainer is a two-piece unit consisting of a sleeve and collet.



### AL series one-piece retainer

This retainer combines the sleeve and collet into a single unit, and can be automatically loaded into assembly.

## Typical Physical Properties

	Nominal Values	Test
<b>MECHANICAL</b>		
Tensile Strength @ Yield, psi (MPa)	4,800	ASTM D638
Tensile Strength @ Break, psi (MPa)	2,000	ASTM D638
Tensile Strength @ Yield	18%	ASTM D638
Tensile Strength @ Break	46%	ASTM D638
Flexural Modulus, psi (MPa)	145,000	ASTM D790
<b>IMPACT</b>		
Notched Izod Impact @ 73°F (23°C)	1.10 ft-lb/in	ASTM D256
Unnotched Izod Impact @ 73°F (23°C)	No Break	ASTM D256
Unnotched Izod Impact @ 0.0°F (-18°C)	3.10 ft-lb/in	ASTM D256
Gander Impact 73°F (23°C), 0.1250 in	153 in-lb	ASTM D3029
<b>HARDNESS</b>		
Rockwell Hardness (R-Scale)	93.0	ASTM D785
<b>THERMAL</b>		
DTUL @ 66 psi – Unannealed	172°	ASTM D1003
<b>OPTICAL</b>		
Haze	9.0%	ASTM D1003

## BarbLock® Stock Sizes and Compatibility

Catalog Number*	Hose/Tubing O.D.** in. (mm)	Hose/Tubing I.D. in. (mm)	Barbed Fitting in. (mm)
<b>000 SERIES</b>			
BL135062-AL	3/16 (4.8)	1/16 (1.6)	1/16 (1.6)
BL135093-AL	7/32 (5.5)	3/32 (2.4)	3/32 (2.4)
<b>125 SERIES</b>			
BL135125-AL	1/4 (6.4)	1/8 (3.2)	1/8 (3.2)
BL135125	1/4 (6.4)	1/8 (3.2)	1/8 (3.2)
<b>187 SERIES</b>			
BL135187	5/16 (7.9)	3/16 (4.8)	3/16 (4.8)
<b>250 SERIES</b>			
BL135250	3/8 (9.5)	1/4 (6.4)	1/4 (6.4)
BL135251-AL	7/16 (11.1)	1/4 (6.4)	1/4 (6.4)
BL135251	7/16 (11.1)	1/4 (6.4)	1/4 (6.4)
BL135252	1/2 (12.7)	1/4 (6.4)	1/4 (6.4)
<b>375 SERIES</b>			
BL135374	9/16 (14.3)	3/8 (9.5)	3/8 (9.5)
BL135375	5/8 (15.9)	3/8 (9.5)	3/8 (9.5)
<b>500 SERIES</b>			
BL135500	3/4 (19.0)	1/2 (12.7)	1/2 (12.7)
BL135501	3/4 (19.0)	1/2 (12.7)	1/2 (12.7)
<b>625 SERIES</b>			
BL135625-AL	7/8 (22.2)	5/8 (15.9)	5/8 (15.9)
BL135625	7/8 (22.2)	5/8 (15.9)	5/8 (15.9)
<b>750 SERIES</b>			
BL135750-AL	1-1/4 (31.75)	3/4 (19.0)	1-1/4 (31.75)

\*When ordering high heat retainers add suffix PVDF to the part number: e.g., BL135500PVDF

\*\*IMPORTANT NOTE: Hose/Tubing O.D. is the most important number when selecting a retainer size.

## BarbLock® Assembly Options

BarbLock® retainers can be installed quickly and easily using any of the following assembly options.

### Tabletops

- Through Bench PAD Tabletop Deluxe — Fully assembled closing unit with sterilizable Poly-Tech top
- Through Bench PAD Walkup — Fully assembled portable closing unit with sterilizable Poly-Tech top / great for bag ports
- Through Bench PAD Table Deluxe — Fabricated from stainless steel, with clean room casters / simple on-site assembly required

### Hand-held Assembly Devices

- BLT-PAD — Standard pneumatic assembly device (PAD) / can be hand-held or bench-mounted.
- PBT-PAD-HD — Heavy duty pneumatic assembly device (PAD) / can be hand-held or bench-mounted.

### Hand Tools

- Stainless steel jaws / plastic handles — For retainer closure
- Stainless steel jaws and handles — For retainer closure
- Disposable plastic (PVDF) — For retainer closure
- Universal removable tool — For retainer removal

*These tools are available from Saint-Gobain. For more information, ask your Saint-Gobain sales representative or distributor for the BarbLock® Assembly Options flyer.*

For more than four decades, Saint-Gobain Performance Plastics and its family of companies have supplied the world with innovative, high-performance polymer products for the most demanding applications. Our tradition of excellence goes back more than 300 years through our parent company, Compagnie de Saint-Gobain, one of the world's top 100 industrial corporations, with operations in 57 countries. This successful corporation has been built with the single purpose of serving the customer and a commitment to quality and leadership in each of the industries served.



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Fax: (508) 823-1438

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Fax: (908) 218-9009

*Consult a Saint-Gobain Performance Plastics Sales Representative for the product and material formulation that best suits your specific application needs.*

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*BarbLock® is a registered trademark of Saint-Gobain Corporation.*

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