

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.

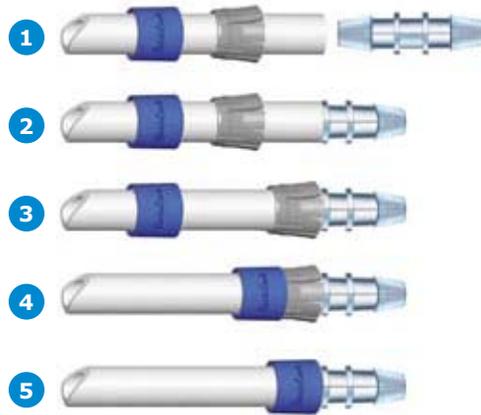
BarbLock® retainers have become the standard in many biopharmaceutical, medical and laboratory applications because of their ability to ensure leak-free connections between fittings and tubes.



BarbLock® *The Ultra-Secure Tubing Retainer*

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

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.

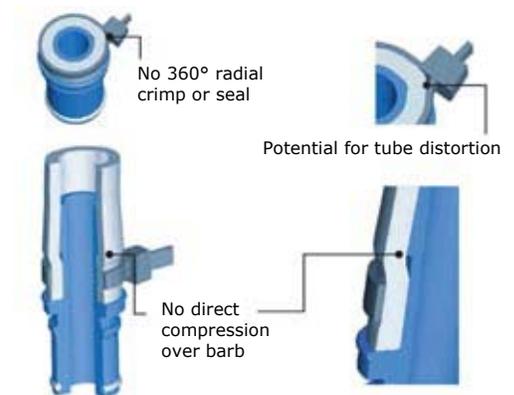
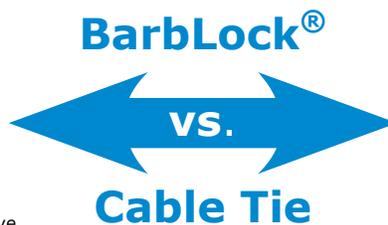
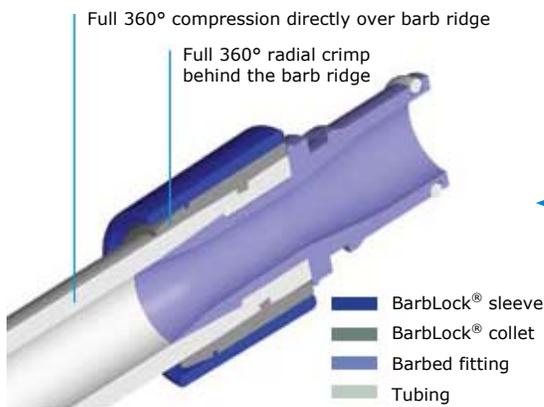
Typical Applications

- 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.



Typical Physical Properties

	Nominal Values	Test
Mechanical		
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
Impact		
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
Hardness		
Rockwell Hardness (R-Scale)	93	ASTM D785
Thermal		
DTUL @ 66 psi – Unannealed	172°	ASTM D1003
Optical		
Haze	9.00%	ASTM D1003

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.

Stock Sizes and Compatibility

Catalog Number*	Hose/Tubing O.D.** in. (mm)	Hose/Tubing I.D. in. (mm)	Barbed Fitting in. (mm)
000 Series			
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)
125 Series			
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)
187 Series			
BL135187	5/16 (7.9)	3/16 (4.8)	3/16 (4.8)
250 Series			
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)
375 Series			
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)
500 Series			
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)
625 Series			
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)
750 Series			
BL135750-AL	3/4 (19.0)	1-1/4 (31.75)	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.

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, contact Sani-Tech West for the BarbLock® Assembly Options flyer.

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