



Bio-Simplex® Tubing End Assemblies for Biopharmaceutical Applications

Bio-Simplex® Tubing End Assemblies are economically designed for single-use, eliminating cleaning and contamination from repeated use resulting in lower production costs and ease of validation. They are made from C-Flex® thermoplastic elastomer (TPE) tubing engineered to ensure an unobstructed fluid path and extremely low levels of extractables. TPE tubing is easily used with sterile connecting devices and thermal tubing sealers.

Customer-generated designs, sizes, packaging and other options such as connectors, heat-sealed ends or alternate materials are available as custom orders.

Molded Tubing Ends

Polypropylene fittings, which meet the requirements of USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5, are molded directly to C-Flex® pharmaceutical grade TPE tubing in mini and standard Tri-Clamp configurations. Assemblies are well-suited for applications involving aseptic transfer, sterile processing, and other critical applications in the pharmaceutical, biomedical, and high purity industries. Tubing ends are packaged and sold individually.

Heat-sealed Tubing Ends

C-Flex® TPE tubing with heat-sealed ends provides a closed system — excellent for use in sterile tubing welding and connecting applications. Single use eliminates the need for cleaning and the risk of cross-contamination resulting in lower production costs and ease of validation.

Features / Benefits

- Sealable and weldable either pre- or post-sterilization
- Sterilizable by gamma irradiation and autoclave
- Validation package available for all C-Flex® commercial formulations.
- Moldable, bondable and formable for single-use assemblies and overmolds
- Non-pyrogenic, non-cytotoxic, non-hemolytic
- Remains flexible from -45°C to 135°C (-50°F to 275°F)
- Significantly less permeable than silicone
- Smooth inner bore for superior fluid flow
- All formulas are Animal-Derived Component Free

Single-use Applications

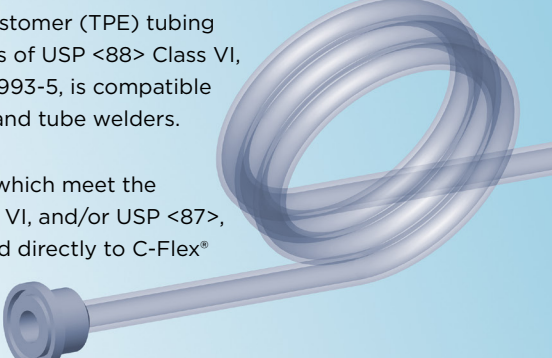
- Aseptic sealing disconnections
- Aseptic welding connections
- Ideal for use in single-use assemblies
- Buffer and media preparation
- Cell culture operations
- Purification operations
- Diagnostic products
- Biopharma manufacturing
- Single-use fluid transfer sets
- Tubing and bags manifolds
- Laboratory R&D
- High-purity water systems



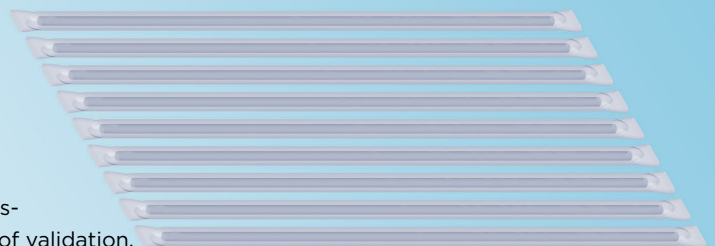
C-Flex® Molded Tubing Ends Selection Guide

Description	24" Length	36" Length
Mini Tri-Clamp Assembly, 1/8"ID x 1/4"OD	MTC-1814-24	MTC-1814-36
Mini Tri-Clamp Assembly, 1/4"ID x 3/8"OD	MTC-1438-24	MTC-1438-36
Mini Tri-Clamp Tubing Assembly, 3/8"ID x 5/8"OD	MTC-3858-24	MTC-3858-36
1-1/2"Tri-Clamp Tubing Assembly, 1/4"ID x 3/8"OD	TC-1438-24	TC-1438-36
1-1/2"Tri-Clamp Tubing Assembly, 3/8"ID x 5/8"OD	TC-3858-24	TC-3858-36

Heat-Sealed Tubing Ends, 1/8"ID x 1/4"OD, nine 8" pieces per package, Gamma Irradiated	HSE-1814-8R
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- C-Flex® ADCF thermoplastic elastomer (TPE) tubing material meets the requirements of USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5, is compatible with sterile connecting devices and tube welders.
 - Molded polypropylene fittings, which meet the requirements of USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5, are attached directly to C-Flex® TPE tubing in mini Tri-Clamp or standard 1-1/2"Tri-Clamp configurations.
 - Assemblies are well-suited for applications involving aseptic transfer, sterile processing, and other critical applications in the pharmaceutical, biomedical, and high purity industries.
 - Autoclavable and gamma irradiatable
 - Customer-generated designs, sizes, packaging and other options -- such as connectors, heat-sealed ends or alternate materials -- are available as custom orders.

- C-Flex® TPE tubing with heat-sealed ends provides a closed system — excellent for use in sterile tubing welding and connecting applications.
- Gamma irradiated and double bagged.
- C-Flex® TPE tubing material is compatible with sterile connecting devices and tube welders.
- Single use eliminates the need for cleaning and the risk of cross-contamination — resulting in lower production costs and ease of validation.
- Customer-generated designs, sizes & packaging -- are available as custom orders.



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WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics warrants this product to be free of 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.

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