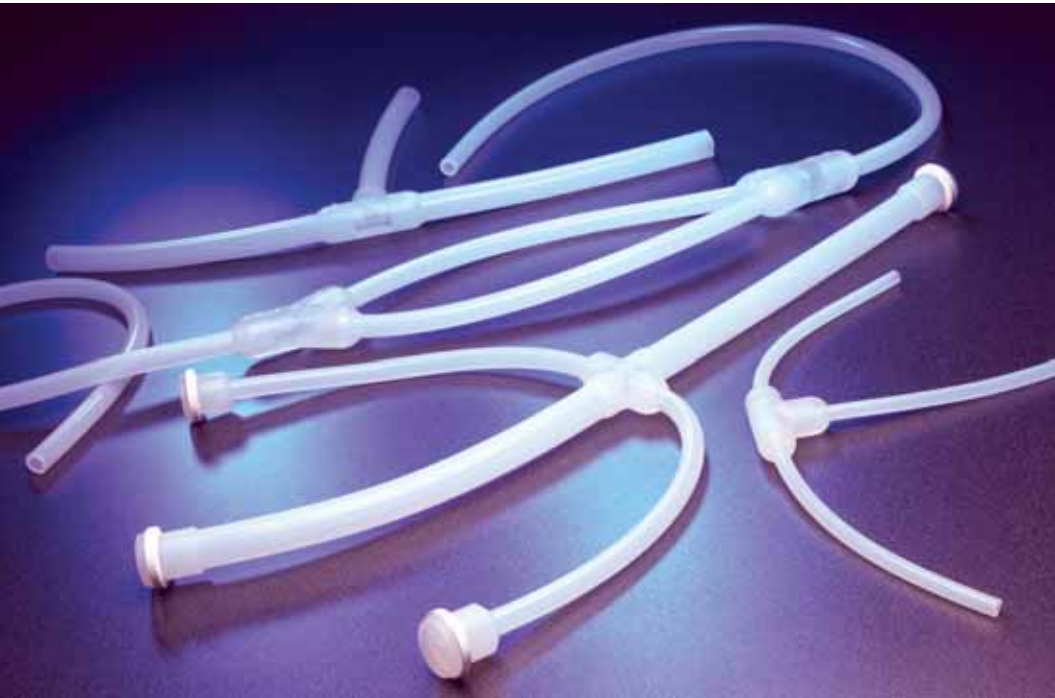


TYGON® Tygo-Link™ Manifolds



TYGON® Tygo-Link™ manifolds are available in choices of Tees, Elbows, Crosses and “Y’s”.

TYGON® Manifolds

The TYGON® Tygo-Link™ manifold is a true industry first and has been awarded a U.S. Patent (No. 6,290,265) for its unique features. Utilizing S.I.B.® (Smooth Inner Bore) technology TYGON® Tygo-Link™ manifolds minimizes the need for fittings, connections or assembly and all leak points and entrapment areas have been eliminated.

Characteristics

Process engineers and designers can specify any combination of manifolds. TYGON® Tygo-Link™ manifolds are available for use with either TYGON® 3350 non-reinforced silicone tubing or TYGON® 3370 braid-reinforced silicone hose for elevated pressure applications.

TYGON® Tygo-Link™ manifolds can be autoclaved or cleaned and sterilized by SIP (braid-reinforced only), gamma radiation or CIP procedures.

Biocompatibility

TYGON® Tygo-Link™ manifolds are manufactured from the finest grade of silicone materials and is fully characterized, validated and tested to a variety of specifications including USP Class VI criteria, ISO 10993 and European Pharmacopoeia 3.1.9. For additional compliance data please review characterization information on the back page. TYGON® Tygo-Link™ has a Master File with the U.S. Food and Drug Administration.

BIOPHARMACEUTICAL PRODUCTS

Ultra-Pure Platinum-Cured, Custom Molded Assemblies and Manifolds

Features/Benefits

- Original patented technology (No. 6,290,265)
- Ultra-pure, biopharmaceutical grade
- Unsurpassed surface smoothness
- Eliminates entrapment, leak points and pulsation, assembly time, and fitting connections
- Ready-to-install system in sizes 1/16" to 1" in customized lengths, available in multiple configurations
- Choose from either TYGON® 3350 non-reinforced silicone tubing or TYGON® 3370 braid-reinforced silicone hose for elevated pressures
- Fully autoclavable and sterilizable
- Imparts no taste or odors
- Biologically safe
- Custom striping and identification capabilities

Typical Applications

- Sterile filling
- Peristaltic pumps
- Filtration and fermentation
- Sampling
- Closed collection systems
- Drug delivery and discovery

TYGON® Tygo-Link™ Manifolds *(consult factory for additional sizes)*

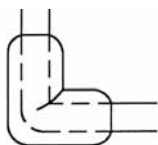
TYGON® Tygo-Link™ Elbow

Available TYGON® 3350 Sizes

- 1/8" x 1/4" O.D.
- 1/8" x 5/8" O.D.
- 1/4" x 7/16" O.D.
- 1/4" x 1/2" O.D.
- 1/4" x 5/8" O.D.
- 3/8" x 7/16" O.D.
- 3/8" x 5/8" O.D.
- 3/8" x 7/8" O.D.
- 1/2" x 5/8" O.D.
- 1/2" x 7/8" O.D.

Available TYGON® 3370 Sizes

- 1/4" x 1/2" O.D.
- 3/8" x 5/8" O.D.
- 1/2" x 7/8" O.D.



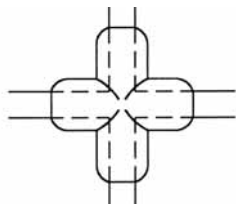
TYGON® Tygo-Link™ Cross

Available TYGON® 3350 Sizes

- 1/4" x 7/16" O.D.
- 3/8" x 7/16" O.D.
- 3/8" x 5/8" O.D.

Available TYGON® 3370 Sizes

- 3/8" x 5/8" O.D.



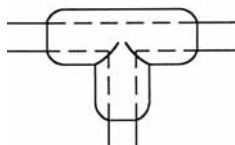
TYGON® Tygo-Link™ Tee

Available TYGON® 3350 Sizes

- 1/8" x 1/4" O.D.
- 1/8" x 5/8" O.D.
- 1/4" x 7/16" O.D.
- 1/4" x 1/2" O.D.
- 1/4" x 5/8" O.D.
- 3/8" x 7/16" O.D.
- 3/8" x 5/8" O.D.
- 3/8" x 7/8" O.D.
- 1/2" x 5/8" O.D.
- 1/2" x 7/8" O.D.
- 1-3/8" x 3/16" O.D.

Available TYGON® 3370 Sizes

- 1/4" x 1/2" O.D.
- 3/8" x 5/8" O.D.
- 1/2" x 7/8" O.D.
- 1" x 1-3/8" O.D.



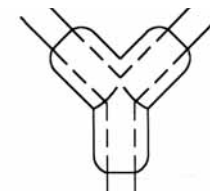
TYGON® Tygo-Link™ "Y"

Available TYGON® 3350 Sizes

- 1/16" x 3/16" O.D.
- 1/16" x 1/4" O.D.
- 1/16" x 7/16" O.D.
- 1/8" x 3/16" O.D.
- 1/8" x 1/4" O.D.
- 1/8" x 5/8" O.D.
- 3/16" x 1/4" O.D.
- 3/16" x 7/16" O.D.
- 1/4" x 7/16" O.D.
- 1/4" x 5/8" O.D.
- 1/4" x 3/4" O.D.
- 3/8" x 7/16" O.D.
- 3/8" x 5/8" O.D.
- 3/8" x 3/4" O.D.
- 1/2" x 5/8" O.D.
- 1/2" x 3/4" O.D.
- 3/4" x 1-1/4" O.D.

Available TYGON® 3370 Sizes

- 3/8" x 5/8" O.D.



Characterization and Sterilization Methods

Characterization

The bio-compatibility of TYGON®3350 platinum-cured silicone tubing, manufactured with TYGON® silicone, has been tested and complies with the parameters set forth in the following test protocols:

- USP Class VI (88) biological reactivity, in vivo
 - Intracutaneous test, Systemic injection test, Implantation test
- USP Class VI (87) biological reactivity, in vitro
 - L929 MEM elution, AGAR diffusion
- USP Class VI (381) elastomeric closure for injection
- USP Class VI (661) containers
- USP Class VI (151) pyrogen test
- European Pharmacopoeia 3.1.9
- USP limits for total organic carbons
- Gamma irradiation
- Infrared analysis
- Test of leachables
- Heavy metals
- ISO 10993

Sterilization Methods

- Autoclavable
- Radiation - up to 2.5 Mrad (25 Kilogray)
- Gas - Ethylene Oxide

NOTE: TYGON® tubing will not deteriorate with repeated autoclaving. This method of sterilization is strongly recommended. TYGON® silicones should not be considered for consistent steam applications.

WARNING: Do not use TYGON® silicone tubing in hot oil or acid applications.

TYGON® Tygo-Link™ Double "Y"

TYGON® Tygo-Link™ Double "Y" for use in double-headed peristaltic pump applications. This revolutionary new product is one complete unit manufactured from our silicone resin to extend pump life and ensure continuous product flow. Since this closed system utilizes the S.I.B.® technology, there is no longer a need for clamps in your product application, providing you with a leak-free connection.

Distributed By:

BIOPHARMACEUTICAL PRODUCTS

Come through clean.™

Saint-Gobain Performance Plastics

3910 Terry-Diane Street
Beaverton, MI 48612
Tel: (888) 387-0067
Tel: (989) 435-9533
Fax: (989) 435-2355



Tygo-Link™ is a trademark.
S.I.B.® and TYGON® are registered trademarks.



IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from 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. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

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