

# Sani-Link<sup>TM</sup> Manifolds



*Sani-Link<sup>®</sup> manifolds are available in choices of Tees, Elbows, Crosses and "Y's".*

## Sani-Link<sup>®</sup> Manifolds

The Sani-Tech<sup>®</sup> Sani-Link<sup>®</sup> 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.<sup>®</sup> (Smooth Inner Bore) technology Sani-Link<sup>®</sup> 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. Sani-Tech<sup>®</sup> Sani-Link<sup>®</sup> manifolds are available for use with either STHT<sup>™</sup>-C non-reinforced silicone tubing or STHT<sup>™</sup>-R braid-reinforced silicone hose for elevated pressure applications.

Sani-Tech<sup>®</sup> Sani-Link<sup>®</sup> manifolds can be autoclaved or cleaned and sterilized by SIP (braid-reinforced only), gamma radiation or CIP procedures.

## Biocompatibility

Sani-Tech<sup>®</sup> Sani-Link<sup>®</sup> 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. Sani-Tech<sup>®</sup> Sani-Link<sup>®</sup> manifolds have a masterfile 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, bio-pharmaceutical grade
- Fully characterized and tested to all current standards
- 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 STHT-C non-reinforced silicone tubing or STHT-R 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

## Sani-Link® Manifolds *(consult factory for additional sizes)*

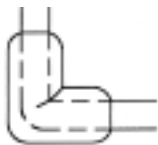
### Sani-Link® Elbow

#### Available STHT™-C 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 STHT™-R Sizes

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



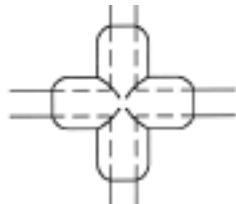
### Sani-Link® Cross

#### Available STHT™-C Sizes

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

#### Available STHT™-R Sizes

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



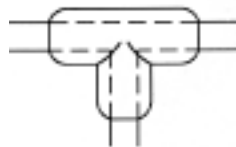
### Sani-Link® Tee\*

#### Available STHT™-C 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 STHT™-R 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.



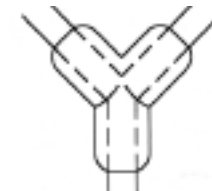
### Sani-Link® "Y"

#### Available STHT™-C 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 STHT™-R Sizes

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



## Characterization and Sterilization Methods

### Characterization

The bio-compatibility of STHT™ platinum-cured silicone tubing, manufactured with Sani-Tech® 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 87 biological reactivity, in vitro
  - L929 MEM elution, AGAR diffusion
- USP 381 elastomeric closure for injection
- USP 661 containers
- USP 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 5.0 Mrad (50 Kilogray)
- Gas - Ethylene Oxide

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

WARNING: Do not use STHT™ silicone tubing in hot oil or acid applications.

### Sani-Link® Double "Y"

Sani-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



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