



## PURITY IN FLUID FLOW SYSTEMS<sup>SM</sup>



HIGH PURITY TUBING, HOSE, & FITTINGS

SANITARY HOSE ASSEMBLIES

MOLDED SILICONE COMPONENTS

RFID SOLUTIONS

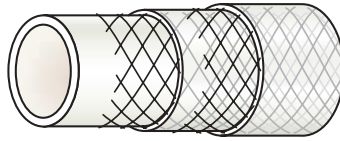


## Silicone Tubing & Hose

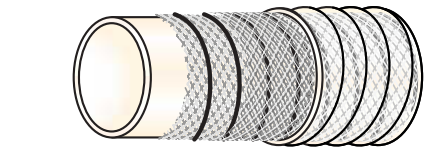
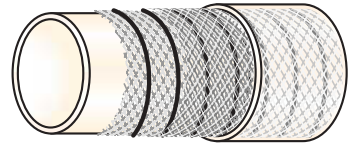
Low volatile grade, platinum cured silicone meets USP Class VI, FDA CFR 177.2600, ISO 10993, European Pharmacopoeia 3.1.9, and 3-A standards. All tubing cores are extruded in a Class 1000 clean room and are animal derived ingredient free.



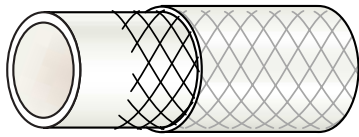
**APST – Silicone Tubing:**  
89 stock sizes from .030" I.D. to 1" I.D.



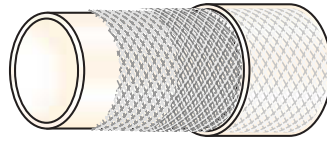
**APSH-DB – Double Braid Reinforced Silicone Hose:** Polyester Braiding; 3 stock sizes from 1/2" I.D. to 1" I.D.



**APSW – 4-Ply, Wire-Reinforced, Mandrel-Wrapped Silicone Suction Hose:** Polyester\* Mesh Fabric; Smooth or Convoluted O.D.; 8 stock sizes from 1/2" I.D. to 4" I.D.



**APSH – Braid Reinforced Silicone Hose:** Polyester\* Braiding; 11 stock sizes from .063" I.D. to 1" I.D.

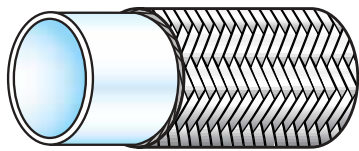


**APSM – 4-Ply, Mandrel-Wrapped Silicone Hose:** Polyester\* Mesh Fabric; Smooth O.D.; 8 stock sizes from 1/2" I.D. to 4" I.D.

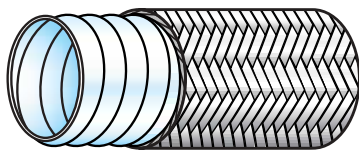
\*Nomex® available through special order.

## Stainless Steel Overbraided PTFE Hose

Constructed of virgin grade white PTFE with a series 300 stainless steel wire braid reinforcement. Also available with a black conductive PTFE core. Can be configured with a **silicone** or **rubber** jacket.



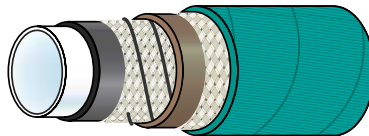
**APFOS-W – White PTFE Core, Smooth I.D.:** 6 stock sizes from 1/4" I.D. to 1-1/2" I.D.



**APFOS-WC – White PTFE Core, Convoluted I.D.:** 7 stock sizes from 1/2" I.D. to 4" I.D.

## Rubber-Covered FEP Hose

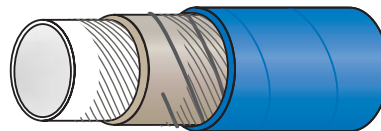
A highly flexible hose constructed of virgin grade fluoropolymer overbraided with a tightly-woven fabric and double spiral steel wire. All materials are sanctioned by the FDA for food contact surfaces. White FEP core meets USP Class VI standards.



**APFRC-W-FLX – Smooth White FEP Core:** 5 stock sizes from 1/2" I.D. to 2" I.D.

## EPDM Food Hose

Complies with FDA standards for use in food contact surfaces.



**APEWF – Wire-Reinforced, EPDM Rubber Core:** 6 stock sizes from 3/4" I.D. to 4" I.D.



# FITTINGS



All AdvantaPure® Fittings are made of high quality **316L Stainless Steel**. Most are available in sizes from 1/4" I.D. to 4" I.D. **Sanitary Fittings**, manufactured with a 15 Ra finish or better, meet 3-A standards. **Electro-Polishing** services are also available.

## Sanitary



Male I-Line

Female I-Line

Tri-Clamp®

Tri-Clamp®  
Elbow

Mini Tri-Clamp®

Male Bevel Seat

Female Bevel Seat

## Pipe Thread



Female Pipe

Male Pipe

## Cam & Groove



Female C&G  
(Swivel shown)

Male C&G

## JIC



Female JIC Swivel

## Flange



**Stainless Steel Flange Retainer**

Flange (sold separately) available in: 304 & 316 Stainless Steel or Powder Coated Carbon Steel

## Compression



Tube Adapter

## Weld End



Tube and Pipe  
Weld Adapters

## Adapters



Male JIC x MNPT

Male JIC x FNPT

## Plastic Barbed



Thermobarb® FDA PP  
Polypropylene Barbed Fitting

Contact us  
about fabricating  
your complete  
Hose Assemblies

# MOLDED COMPONENTS

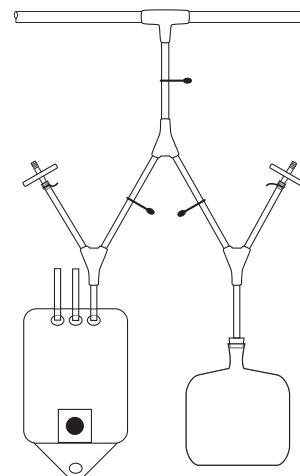
Part of our high purity manufacturing suite, the AdvantaPure® Mold Shop features a white room environment to produce a variety of molded components suitable for any number of applications in the pharmaceutical, biomedical, and biotechnology industries. Our molded products are custom made to meet your application's specific requirements, are documented lot traceable, and certified to be free of animal-derived ingredients. Contact your AdvantaPure representative for more details.



## Single-Use Batch Fill & Sampling Assemblies

By combining platinum-cured, USP Class VI silicone tubing with molded fittings, stoppers or other components, a wide variety of assembly options are possible. Designs range from simple, single fitting connections to complex configurations with varying lengths of tubing and several molded connections. The process used to join silicone tubing and molded fittings permanently bonds the parts into one unit. Leaks and entrapment concerns, common with the use of barbed fittings, are eliminated. Ideal for applications requiring single-use components.

The addition of our **RFID Tracking System** can facilitate your validation process and improve your risk management practices and procedures. Contact your AdvantaPure representative for more information.



Assemblies can be used with a variety of containers, vessels, biobags, etc. for sampling and process manufacturing applications



Select from a number of different crevice-free connections

## Molded Silicone Assemblies

Supplied as silicone fittings attached directly to silicone tubing or hose, AdvantaPure's Molded Silicone Assemblies are well-suited for applications involving aseptic transfer, sterile processing, and other critical applications in the pharmaceutical, biomedical, and high purity industries. The assemblies reduce installation time, improve cleanliness, and retain the many benefits of silicone.



Molded Silicone Assemblies are available from AdvantaPure in mini and standard Tri-Clamp® fitting styles and are supplied with male gaskets molded directly to the face of the fitting. Straight-through and step-up bore configurations are produced in sizes up to 1" tube I.D. Protective backup cups, offered in polysulfone or series 304

stainless steel for extra durability, provide a stable clamping surface and safeguard the fittings during installation and use.

All assemblies are custom made to best meet each application's requirements and incorporate either unreinforced silicone tubing or braid-reinforced silicone hose. Working pressure ratings vary depending on product.

## Stoppers & Sealing Systems

Manufactured from USP Class VI, platinum-cured silicone elastomer, AdvantaPure's injection-molded silicone stoppers and components offer the utmost in purity. Manufactured in-house in a clean room environment, the parts are biologically safe and work with receptacles of glass, metal, or plastic. Ideally suited for pharmaceutical, biotech, and laboratory environments.



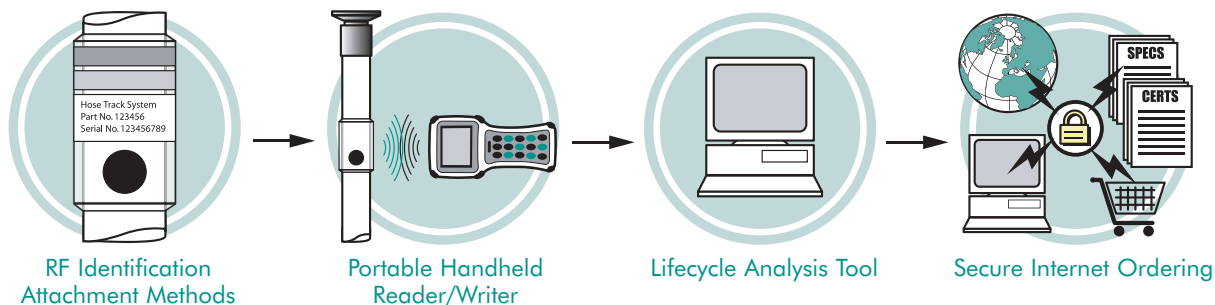
# RFID SOLUTIONS

AdvantaPure® offers a new degree of safety and reduced risk for high purity applications. Using RFID (radio frequency identification) technology, all process equipment involved with a particular batch of product can be monitored from start to finish.



The **Hose Track™** Hose Lifecycle Analysis System (patent pending) is a unique, revolutionary hose assembly tracking system. Hose Track helps users minimize the risk of contamination and hose failure and the costly repercussions associated with batch waste and production stoppages. It offers an excellent way for manufacturing and maintenance personnel to monitor hose assembly cleaning, usage rates, and replacement.

## RF IDENTIFICATION AND HOSE LIFECYCLE ANALYSIS SYSTEM



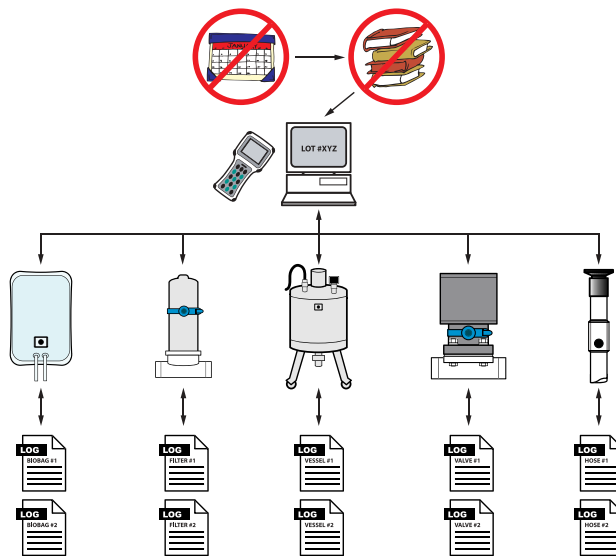
## PROCESS EQUIPMENT TRACKING

The same RFID technology we've developed for hoses can be used for other components in the process chain—valves, filters, vessels, biobags, and more. Track usage and cleaning cycles to ensure timely maintenance and replacement... before parts begin to fail, risk product integrity, and waste time and labor. It's a logical approach to tracking all critical process components.

**Calendar & Manual Log Methods** for replacing critical process components can be unreliable, increasing risk of product contamination and wear related failure.

**RFID Tags** attached to process equipment are scanned by reader/writer to track wear related events and update computer database.

A Process Equipment Tracking System provides a detailed audit trail to assist in the validation process.



New

**GammaTag™**  
GAMMA STERILIZABLE RFID TAGS



**GammaTag™** – the industry's first gamma-radiation-resistant read/write RFID tag is available exclusively from AdvantaPure. Ideal for use on products where gamma sterilization is required.

# SERVICES

What really sets AdvantaPure apart from other manufacturers is our ability and willingness to offer various services to create a custom part from stock material. This benefits you in two ways—fast delivery and low cost. Contact a helpful AdvantaPure Sales Representatives to discuss your needs.



## Hose Identification Systems

AdvantaPure offers various Hose Identification methods that may be used together or individually.

- **AdvantaLabel®** -

Silicone hose labeling system uses permanently-vulcanized silicone to encase a label and color stripes to the outside of silicone tubing and hose for quick, easy-to-read identification.



- **Color Tracer Braid** -

Incorporated into flexible, braid-reinforced silicone hose, the colored braid material offers a quick and easy way to differentiate between lines.



- **Color Silicone Tubing** -

Solid color throughout the tubing provides quick, easy-to-see identification along the entire length of line. Tubing retains the performance characteristics silicone is known for.



- **Laser-Etched Collars** -

Stainless steel collars are etched using precise laser technology for sharper and more legible text and images.



- **Laser-Etched Tags** -

Sharper and more legible than traditional acid-etched parts or handwritten labels, laser-etched tags are inexpensive, easy to attach to hoses, and work well for existing installations.



## Hose Assemblies



**High Purity Silicone Hose with Sanitary Stainless Steel Fittings**

By combining our broad line of stock tubing, hose, and fittings, the optimum hose assembly for your application can be fabricated quickly. Let our Fabrication Team handle the assembly labor for you, so you receive a finished, pressure-tested, ready-to-install product. We can also provide choices for non-entrapment hose assemblies, where conveyed materials contact only the pure inner-core of the assembly—from end to end—providing a seamless transition and higher flow rates.

## Special Hose Coverings

Special coverings offer additional protection from high temperatures or pressures, excessive friction, kinking or crushing, etc. Available materials include: Stainless Steel Armor, Rubber, Silicone, Polypropylene, or Kynar® braid, and more.



**Stainless Steel Armor**



**Fire Sleeve**



**Silicone Covered Stainless Steel Braid**



**Polypropylene Braid**



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