

AdvantaPass permits the aseptic transfer of fluids between the walls of pharmaceutical and biopharm manufacturing suites. It's the first system of its kind to offer complete isolation between different classes of clean rooms when transferring multiple lines of fluid through a single wall portal.

AdvantaPass is a patented system that provides a practical, safe, secure and easy way to move large volumes of liquids from one room to another without the risk of bin damage or product loss. Its incorporation of Single-Use disposable components eliminates cleaning validation requirements that involve the expense and waste of time, labor and natural resources.

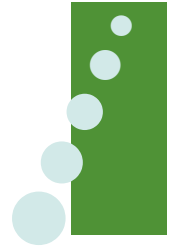


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[www.advantapure.com](http://www.advantapure.com)

## KEY FEATURES

- Single-Use components eliminate the need to clean and validate traditional hard piping transfer lines
- Design flexibility — can be used in new construction or retrofitted into existing facilities
- Accommodates single or multiple fluid flow lines without compromising the isolation barrier functionality
- Provides a reliable method for transferring fluids without physically moving bins and totes, thereby eliminating the risk of bin damage, breakage and lost product during bin transfer
- Uses Single-Use process components made of either platinum-cured silicone or TPE tubing and isolator flanges and seals
- Custom manufactured with standardized parts for each application including a choice of end connections
- Does not involve multiple moving parts or frequent maintenance like other in-wall pass-through systems
- Works with various wall and floor thicknesses
- Assembly and disassembly takes just minutes
- Standard sizes up to 6" diameter; larger sizes on request
- Portal assemblies machined from solid 316L stainless steel
- Purge ports further reduce the chance of cross contamination between non-viral-active and viral-active suites
- U.S. Patents 8,870,230; 9,869,408 and 10,113,670



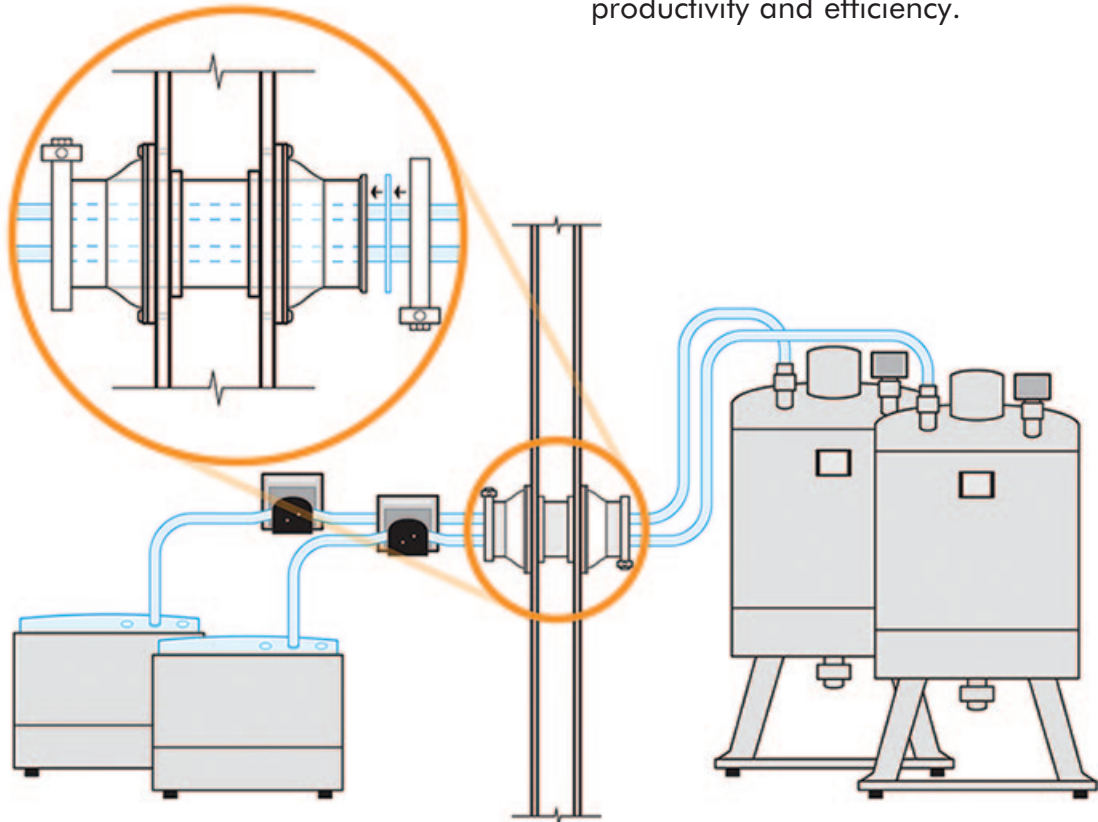
## Custom Manufactured

The AdvantaPass system is custom made to accommodate different wall thicknesses. It can also be adapted for floor-to-ceiling conveyance.

AdvantaPass uniquely manages multiple tubing apertures, as well as purge ports, through a single wall portal. The system can save thousands of dollars as compared to other pass-through methods that involve

numerous moving parts and frequent, costly maintenance.

AdvantaPass reduces production stoppages for sterilization and validation of hard piping transfer systems, which use natural resources, cleaning chemicals that must be disposed of, time and labor. The system's Single-Use components allow for flexibility from one transfer to the next, minimize the risk of cross contamination and increase productivity and efficiency.



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## Proven, Reliable Materials



AdvantaPass® uses 316L stainless steel components such as portals, end caps and hygienic union clamps to form a secure barrier, while it incorporates Single-Use tubing, seals and isolator assemblies for fluid transfer processes. AdvantaPass is offered in standard sizes up to 6" diameter with larger dimensions available on request.

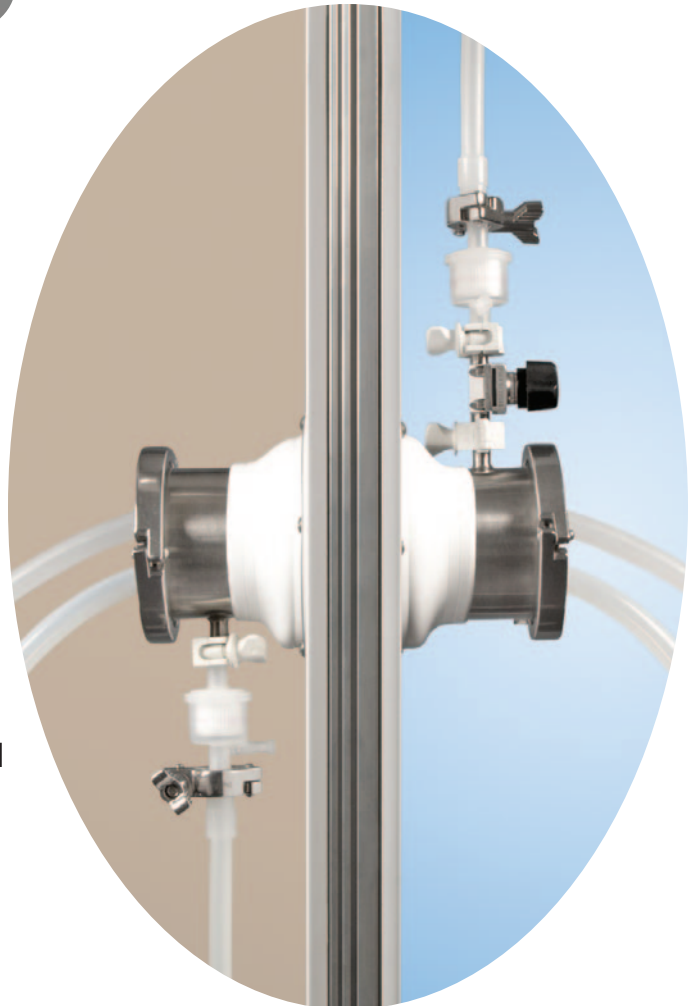
Note: The use of non-BPE-compliant components may result in an improper isolator seal.

## Highly Adaptable

Single or multiple tubing ports, where one pass-through system can safely serve several different tubes, is unique to AdvantaPass.

Choose from aseptic or open connector configurations to adapt to your process. Single or double isolation barriers maintain the proper environment.

Purge ports introduce filtered air, creating a pressurized portal for complete isolation between classified areas.



■ This cross section view of the AdvantaPass system shows an air purge function.

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# MATERIALS



## MOLDED SINGLE-USE MANIFOLD ASSEMBLIES

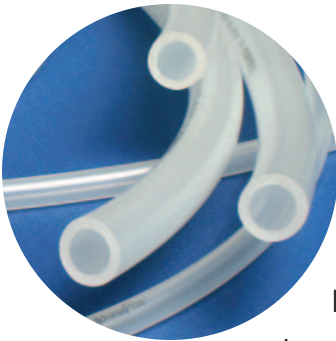
AdvantaPure specializes in the design and manufacture of molded Single-Use manifold assemblies for sampling and storage applications. These assemblies are available in platinum-cured silicone or biopharmaceutical grade TPE.

Learn more at <https://advantapure.com/single-use-molded-manifolds.html>

## APST UNREINFORCED SILICONE TUBING

Low-volatile grade, platinum-cured silicone tubing is clean room produced for critical biopharm, pharmaceutical, cosmetic and food applications. APST has undergone extensive physical, chemical and biological testing and meets USP Class VI, FDA, ISO, and EP standards.

Learn more at <https://advantapure.com/apst-silicone-tubing.html>



## AdvantaFlex<sup>®</sup> BioPharmaceutical Grade Tubing



AdvantaFlex addresses the need for a flexible, sterilizable, moldable, weldable and heat sealable biopharmaceutical tubing without silicone oils. AdvantaFlex maintains its physical properties following sterilization processes, remains translucent for visible product flow and does not become gummy. The tubing resists kinking and is an excellent component for Single-Use systems.

Learn more at <https://advantapure.com/advantaflex.html>

## Purity in Fluid Flow Systems<sup>®</sup>



Made in U.S.A.

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