



Ami Polymer

“Sealing Expert in Silicone”

SINGLE-USE BAGS | SINGLE-USE ASSEMBLIES | SINGLE-USE COMPONENTS

TUV NORD CERTIFIED:- ISO 9001:2015 (QMS), ISO 14001:2015 (EMS), ISO 45001:2018 (HEALTH AND SAFETY),
ISO 27001:2013 (ISMS), ISO 13485:2016 (MEDICAL DEVICES) CERTIFIED MANUFACTURING FACILITY OF
CLEAN ROOM CLASS 10000



SINGLE USE SYSTEM

Solution to Biopharma Industries



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info@amipolymer.com



About Us

Since 1998, APPL has been engaged in the business of polymer products, which ultimately provide solutions to fluid transfers, sealing and contamination controls for the pharma, biopharma, medical, laboratory, food, beverage and engineering sectors worldwide.

APPL has ISO class 7 and 8 cleanroom facilities certified with ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 27001:2013 and ISO 13485:2016. We also have a BPOG extractables program for our products for regulatory markets worldwide.

APPL has world-class manufacturing technology with end-to-end process capabilities to fulfill the needs of customers. Our advanced facilities include laser-controlled extrusion, automated hose production lines, thermoplastic extrusion lines, automatic hydraulic presses for elastomers and polymeric components, a cutting-edge laboratory equipped with R&D machinery, in-house tooling and mold-making machinery, laser cutting machines and online printing and marking systems.

The company believes in "Be in business with ethics" and assure quick development, fastest delivery, ultimate quality and also very competitive rates.

Certification and Compliance



Quality Certificates



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



ISO 13485:2016



Our Strengths

- Expanding manufacturing capacity by adding a new world-class manufacturing facility with a total area of 2,50,000 sq. ft. (including 60,000 sq. ft. of clean room) located in Kala, Dadra Nagar Haveli & Daman and Diu.
- 25+ registered brands with Global global sales footprint in 50+ countries
- A dedicated strength of 600+ employees, which includes qualified polymer technologists, biotechnologists, engineers, and management professionals
- Excellence in manufacturing process through world-class extrusion, molding, and tooling facilities
- Quick development of customized single-use manifolds and bag assemblies
- Dedicated research facility with the latest laboratory equipment and devices.
- A world-class hose crimping and hydrotesting facility ensures leak-proof performance.
- Laser-controlled extrusion system for accurate dimensions of tubing and profiles
- In-house tool designing capabilities through advanced CMC and VMC machines
- Awarded in Asia-Pacific Bioprocessing Excellence Awards-2023 for the Best Bioprocessing Supplier: Single-Use Consumables
- DMF #26201, 32560, 32558, 32556, 32559, 32561 & 32549 (Drug Master File) for manufacturing of tubes and hoses accredited by USFDA
- Clean Room of a Class 10000 Certified Facility
- NSF-51 Certification on Platinum Cured Silicone Resin (84% of the standards of the USFDA are derived from NSF)
- BPOG standardized extractables test reports on single-use products
- TOXIKON Lab (USA)-based E&L study, USP Class87, ISO 10993 biocompatibility studies on products
- TUV Nord-certified IMS (Integrated Management System) facility [ISO 9001:2015, ISO 14001:2015, ISO 45001:2018]; ISO 27001:2013; ISO 13485:2016
- High Performance Capability and Credit Rating of MSE-I from CRISIL
- Sound Infrastructure and Capabilities to Develop Tailor-Made Products as Per Customers' Requirements
- The most advanced, fully automatic microwave continuous curing system that ensures accurate dimensions Glossy Surface and Aesthetically Finished Profiles
- Successfully developed 5000+ customized products and have 3000+ satisfied customers globally.



Single-Use System

The biopharmaceutical industry is rapidly moving towards the use of single-use disposable systems for the development and manufacturing of a wide range of therapeutic proteins, mAbs, and vaccines.

APPL offers a wide range of gamma-irradiated single-use assemblies for various critical applications in biopharmaceuticals. Our products range from simple tubing with connectors to a complex manifold with several joints and connections. All the assemblies are manufactured and packed in an ISO Class 7 certified cleanroom. Most of the key components used in our single-use assemblies are manufactured in-house.

MANUFACTURING PROCESS

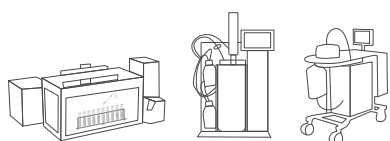
The manufacturing spaces are classified as ISO 7 in accordance with ISO 14644-1:2015. Single-use assemblies are produced by trained personnel in a validated ISO Class 7 facility. The products are subjected to a 100% visual inspection. The product then moves to the labelling and packaging operation, where it is placed in its primary and secondary polybag packaging. The products are labeled and tagged on the outer polybags, along with a gamma irradiation indicator. After that, they are packaged in a double polybag and placed in carton packages.

STERILISATION

Our single-use assemblies are sterilized by gamma irradiation to provide a sterility assurance level of 10^{-6} . The sterilization process has been validated as per ISO 11137-2. Once the packaging operation is complete, the product is then shipped to a contract sterilizer for gamma irradiation. When the irradiated product returns to Ami Polymer, all the packages are inspected to verify that all gamma irradiation indicators have transitioned and that the packages have not been damaged. Once gamma irradiation is confirmed to have been complete, the batch record is sent to quality for review and release.

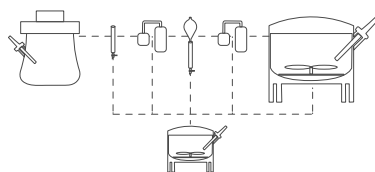
Solutions for Every Bioprocessing Stage

Upstream Processing



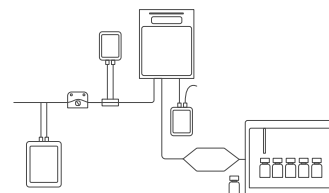
Cell Culture
Media Preparation
Mixing
Filtration

Downstream Processing



Purification
Chromatography
Intermediate Storage

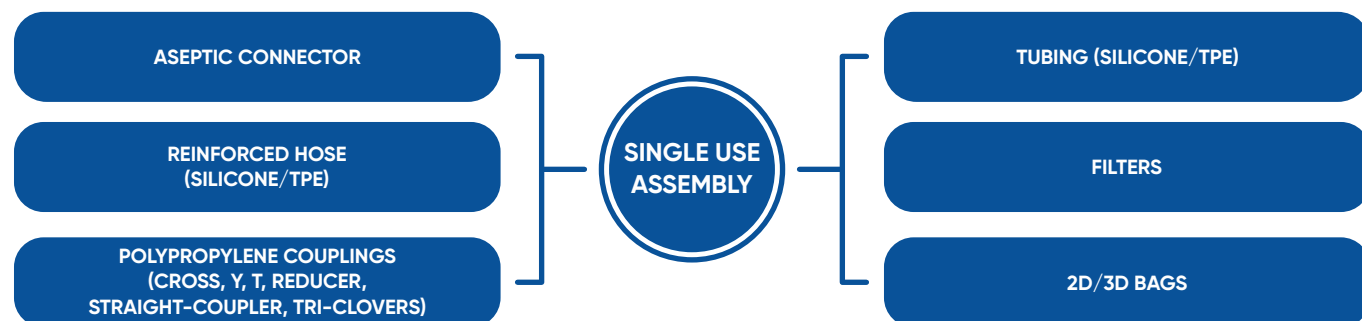
Fill Line and Finish



Sterile Filling
Packaging
Sealing

Customized Options

Ami Polymer Private Limited offers customized solutions on demand.





A Solution for Bioprocessing Applications

APPL's ImaLOK™ sanitary clamp is designed to address the needs of single-use disposable/biopharma industries. ImaLOK™ sanitary clamps are manufactured using a glass-reinforced FDA 21 CFR 177.1500 grade, USP Class VI Nylon 66 is designed to be used as a component for single-use transfer lines and a widerange of bioprocess systems.



CHARACTERISTICS

- These are offered in a wide range of internal dimensions to meet the process requirements.
- The manufacturing process is carried out in a ISO Class 7 cleanroom.

FEATURES/BENEFITS

- Biopharmaceutical grade
- Limited-slip design and floating hinge self-adjust for balanced contact pressure
- Compatible with ASME-BPE and BPSA standards for non-metallic and stainless steel ferrules
- Excellent acid and alkali resistance
- Highly efficient locking mechanism
- Lightweight
- Autoclavable and gamma-sterilisable
- Quick delivery support

APPLICATIONS

- Single-use systems (SUS)
- Pharmaceutical manufacturing
- Vaccine and biotherapeutics production
- Applications where metal is incompatible

CERTIFICATIONS

- FDA 21 CFR 177.1500
- USP Class VI
- USP Class 87

SIZES AVAILABLE

Part No.	Material of construction (MOC)	Size (Inch)
GNRC-NC-0750	Glass reinforced nylon	1/2" -3/4"
GNRC-NC-1500	Glass reinforced nylon	1"- 1.5"
GNRC-NC-4000	Glass reinforced nylon	4"
GNRC-NC-6000	Glass reinforced nylon	6"
GNRC-NC-8000	Glass reinforced nylon	8"



Single-Use Components

Cleanroom molded PP connectors are intended to meet the requirements of single-use fluid path components developed for the biotech and pharmaceutical industries. Cleanroom molded connectors are manufactured within a facility operating an ISO 9001 quality management system.

TECHNICAL SPECIFICATIONS

- MOC: Polypropylene
- Mode of Sterilization: Autoclavable up to 135°C for a maximum of 30 minutes and gamma irradiated up to 50 kGy.
- Storage condition: Stored in the original packaging wherever possible in a cool, dry environment away from direct sunlight without exposure to stress or harsh chemicals. Normal warehouse conditions of 5°C – 40°C are acceptable.

CERTIFICATIONS

- FDA 21 CFR 177.1520 < Food Grade Test"
- USP <88> Biological reactivity tests, In Vivo
- USP < 87> Biological reactivity tests, In Vitro
- Extractable study

Regulatory compliance declaration

- REACH legislation
- RoHS
- TSE/BSE
- Melamine
- Phthalates
- Bisphenol A

APPLICATIONS

- Ideal for single-use assembly
- A perfect solution for bioprocessing industries
- Ideal for tubing connections



Cleanroom Molded PP Cross-Connector

Part No.	Tube Size (Inch)	Tube Size (MM)
PP-XC-0250	1/4"	6.4
PP-XC-0375	3/8"	9.5
PP-XC-0500	1/2"	12.7
PP-XC-0750	3/4"	19.1



Cleanroom Molded PP T-Connector

Part No.	Tube Size (Inch)	Tube Sizw (MM)
PP-TC-0250	1/4"	6.4
PP-TC-0375	3/8"	9.5
PP-TC-0500	1/2"	12.7
PP-TC-0750	3/4"	19.1
PP-TC-1000	1"	25.4



Cleanroom Molded PP Straight Connector

Part No.	Tube Size (Inch)	Tube Size (MM)
PP-STCN-0250	1/4"X1/4"	6.4 X 6.4
PP-STCN-0375	3/8"X3/8"	9.5 X 9.5
PP-STCN-0500	1/2"X1/2"	12.7 X 12.7
PP-STCN-0750	3/4"X 3/4"	19.1 X 19.1
PP-STCN-0125	1/8"X1/8"	3.2x3.2



Cleanroom Molded PP End Plug

Part No.	Tube Size (Inch)	Tube Size (MM)
PP-EP-0125	1/8"	3.2
PP-EP-0250	1/4"	6.4
PP-EP-0375	3/8"	9.5
PP-EP-0500	1/2"	12.7
PP-EP-0625	5/8"	15.9
PP-EP-0750	3/4"	19.1



Cleanroom Molded TC Sanitary Connector

Part No.	Triclover Size	Tube Size (Inch)	Tube Size (MM)
PP-TC-0.75-1.25HB	3/4" TC	1/8"	3.17
PP-TC-0.75-0.25HB	3/4" TC	1/4"	6.35
PP-TC-0.75-0.37HB	3/4" TC	3/8"	9.52
PP-TC-0.75-0.75HB	3/4" TC	3/4"	19.05
PP-TC-0.75-0.50HB	3/4" TC	1/2"	12.70
PP-TC-1.50-0.50HB	1.5" TC	1/2"	12.70
PP-TC-1.50-0.75HB	1.5" TC	3/4"	19.05
PP-TC-1.50-0.25HB	1.5" TC	1/4"	6.35
PP-TC-1.50-0.37HB	1.5" TC	3/8"	9.52
PP-TC-1.50-1.00HB	1.5" TC	1"	25.4
PP-TC-1.00-0.50HB	1" TC	1/2"	12.7
PP-TC-2.50-0.50HB	2.5" TC	1/2"	12.7
PP-TC-2.50-0.75HB	2.5" TC	3/4"	19.07



Cleanroom Molded PP End Cap

Part No.	Tube Size (Inch)	Tube Size (MM)
PP-EC-0750	3/4"	25.00
PP-EC-1500	1.5"	50.5



Cleanroom Molded PP Pinch Clamp

Part No.	Size	Tube OD (Inch)
PP-PC-0250S	Small	1/8"-1/4"
PP-PC-0375M	Medium	1/4" - 3/8"
PP-PC-0500L	Large	1/2" - 3/4"



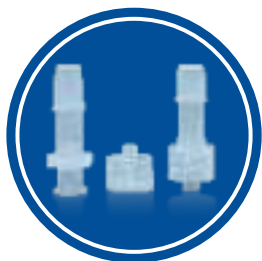
Cleanroom Molded PP Y-Connector

Part No.	Tube Size (Inch)	Tube Size (MM)
PP-YC-0500	1/2"	12.70
PP-YC-0750	3/4"	19.05
PP-YC-0125	1/8"	3.17
PP-YC-0062	1/16"	1.58
PP-YC-0187	3/16"	4.76
PP-YC-0250	1/4"	6.35
PP-YC-0375	3/8"	9.52
PP-YC-0156	5/32"	3.96
PP-YC-0031	1/32"	0.79
PP-YC-0625	5/8"	15.87
PP-YC-0312	5/16"	7.93



Cleanroom Molded PP Reducer

Part No.	Tube Size (Inch)	Tube Size (MM)
PP-RD-0125-0500	1/8" X 1/2"	3.2 X 12.7
PP-RD-0125-0250	1/8" X 1/4"	3.2 X 6.4
PP-RD-0250-0375	1/4" X 3/8"	6.4 X 9.6
PP-RD-0250-0500	1/4" X 1/2"	6.4 X 12.7
PP-RD-0375-0500	3/8" X 1/2"	9.5 X 12.7
PP-RD-0375-0750	3/8" X 3/4"	9.5 X 19.1
PP-RD-0500-0750	1/2" X 3/4"	12.7 X 19.1
PP-RD-0750-0250	3/4" x 1/4"	19.1x6.4
PP-RD-0500-1000	1/2" X 1"	12.7x25.4



Cleanroom Molded PP Luer Lock

Part No.	Description	Hose Barb Size
PP-LL-MC-0125	Luer Lock Male	1/8"
PP-LL-FC-0125	Luer Lock Female	1/8"
PP-LL-MC-0250	Luer Lock Male	1/4"
PP-LL-FC-0250	Luer Lock Female	1/4"



Threaded Pinch Clamp

Part No.	Description	Tube OD
GRN-TPC-0750	Small Treaded pinch clamp	1/2"-3/4"
GRN-TPC-1500	Large treaded pinch clamp	1" - 1.5"



Aseptic Bush

Sealing solutions for Bio-process Applications

Our aseptic bush is engineered to meet the standards of single-use bioprocessing applications. Crafted from biocompatible materials, this product ensures reliability and simplicity for the pharma and biopharma sectors. Its crimping design guarantees a secure, leak-proof seal, eliminating the need for complex tools and reducing contamination risks during installation. With seamless compatibility across a wide spectrum of single-use bioprocessing components and a range of sizes available, our product excels in adaptability and ease of integration. Certified for quality and manufactured with sustainability in mind, it aligns perfectly with industry standards.

CHARACTERISTICS

- Maintains product sterility in non-aseptic environment.
- Applied to multiple types & sizes of tubing.
- Improves reliability for Bio-pharma industries.

APPLICATIONS

- Aseptic Disconnect to
- Sampling Manifold System
- Sampling Bags
- Sampling Fluid Transfer Line

FEATURES/BENEFITS

- Leak-proof crimping design
- Reduced contamination risk
- Acts as a disconnect

SIZES AVAILABLE

Catalogue no.	Tube OD	Aseptic bush (ID)	Aseptic bush (OD)	Length of Aseptic bush (mm)
CP-0.300-0.530	5.3 mm	5.4 mm	6.4 mm	20 mm
CP-0.125-0.250	6.35 mm	6.7 mm	7.7 mm	20 mm
CP-0.250-0.375	9.5 mm	9.8 mm	10.8 mm	20 mm
CP-0.125-0.437	11.11 mm	11.5 mm	12.5 mm	30 mm
CP-0.125-0.500	12.7 mm	13.2 mm	14.2 mm	40 mm
CP-0.375-0.625	15.8 mm	16.1 mm	17.2 mm	45 mm
CP-0.500-0.750	19.05 mm	19.4 mm	20.4 mm	52 mm



Quick Connector

A solutions for Bio-process Applications

The pharmaceutical and bio-pharmaceutical production industries are at the forefront of transforming fluid systems functioning with Quick Connectors. It provides an assurance of reliable connections, a critical factor in the fluid systems integral to manufacturing pharmaceutical and bio-pharmaceutical products.



CHARACTERISTICS

- Designed to minimize the potential for cross-contamination, thereby safe guarding the integrity and purity of your valuable products.

APPLICATIONS

- Fluid transfer
- Bioreactor tubing
- Conveyance and retrieval lines
- Laboratory tubing interfaces
- Sequential Linkage

SIZE AVAILABLE

Size	Catalogue No.
1/8	PC-QC-MC-0125
	PC-QC-FC-0125
1/4	PC-QC-MC-0250
	PC-QC-FC-0250
3/8	PC-QC-MC-0375
	PC-QC-FC-0375
Plug	PC-QC-MP-M
	PC-QC-FP-M

CERTIFICATIONS

- USP <87>
- USP <88>
- USFDA CFR title, Part 211.72
- Gamma Sterilized (50 KGy)





Filling Needle

A solutions for Bio-process Applications

Single-use filling needles are essential components in the biopharmaceutical industry, designed to facilitate the aseptic filling of drug products into vials, syringes, or containers. These needles are specifically engineered for the accurate filling of both mobile and viscous drug products without drip formation. They offer ready-to-use filling solutions as part of complete, gamma-sterilized, single-use filling assemblies.

CHARACTERISTICS

Single-use filling needles are designed to prevent dip formation, enable accurate volume filling, and offer various internal diameters to accommodate different fill volumes.

APPLICATIONS

- Aseptic Drug Filling
- Vaccine Manufacturing
- Sterile Fluid Transfer
- Specialized Filling Operations
- Small-Volume Filling
- Large-Scale Production

CERTIFICATIONS

- USP Class VI
- USP 788
- USP 85

SIZE AVAILABLE

Internal Diameter (ID)
1.6 mm
2.1 mm
2.8 mm
3.0 mm
5.0 mm



Sampling Needle

Sampling needle is design for use in biopharma applications, particularly in sampling system bag, offering excellent flexibility, and compatibility with various solutions.

FEATURES & BENEFITS

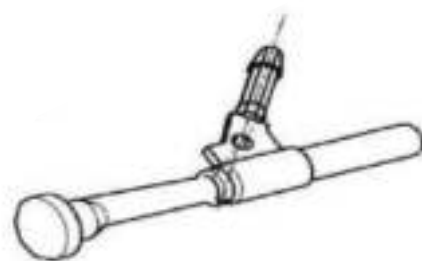
- Closed and easy to use
- Reduces risk of contamination
- Presterilized, eliminating the need for cleaning and/or sterilization between samples.
- Available in 1mm and 2mm needle hole

CERTIFICATIONS

- USP Class VI
- USP < 85> Bacterial Endotoxins –LAL test
- USP < 661.1> Extractable metals
- USP < 788> Sub visible particulate matter

SIZE AVAILABLE

Part Description	MOC
Needle	Stainless Steel
Plug/ Sleeve	Platinum cured Silicone
Body	Polypropylene



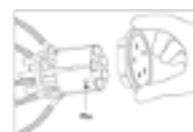
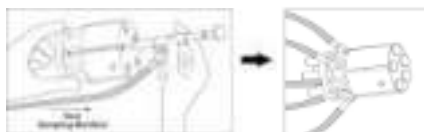
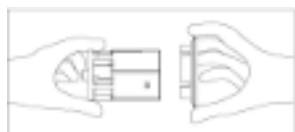
INSERTING PROCEDURE

Step 1: Open the front TC portion of sampling port adapter by anti-clockwise rotating the check nut on the backside of sleeve.

Step 2: Detached the front TC Portion of the sampling port adaptor from sleeve.

Step 3: Now insert the sampling port into the grooves provided in the sleeves

Step 4 : Attached the SS Sanitary flange at the Sleeve.





A Solution for Bioprocessing Applications

ImaLINK™ manifold is designed to minimize the need for fittings, connections, or assembly of all leak points and entrapment areas have been eliminated. Single-use ImaLINK™ manifolds are manufactured by moulding straight sections of tubing or with connectors such as T's, Y's, X's, and Tri-Clamps. Most molded connectors provide a seamless transition for a continuous, unrestricted, leak-proof flow by eliminating barbed fittings.

CHARACTERISTICS

ImaLINK® manifold are offered in a wide range of internal dimensions to meet the process requirements. The manufacturing process is carried out in a cleanroom of ISO Class 7, where the production cycle from raw materials to finished goods is carefully controlled.

FEATURES/BENEFITS

- Tube manifolds are customized to meet exact process and design requirements.
- Engineered with a range of tubing materials that are free from BPA, Latex, Phthalates, and ADI, ensuring the highest safety standards.
- Compliant with FDA 21 CFR 177 Standard.
- Crafted from USP Class VI approved materials.
- BPOG Standardized Extractable tests available.
- Assembled and packaged in cleanroom of ISO Class 7.
- Options include overmolded and barbed connectors, filters, clamps, tubing.

APPLICATIONS

- Buffer and media transfer (feeds, the addition of base or acid, antifoam, growth medium, and other liquids).
- Collecting samples with zero risk of contamination
- Media filtration
- Inoculation.
- Removal of liquids from bioprocesses
- Carboy assemblies
- Peristaltic pump tube assemblies

CERTIFICATIONS

- FDA 21 CFR 177.2600
- USP Class VI
- USP Class 87
- ISO 10993
- USP 381 Elastomeric closure for injection
- EP 3.1.9
- BPOG standardized extractable test



Overmolded Connections

Overmolding allows for the removal of the hose barb all together. The interior of a molded connection provides a smooth inner surface and a seamless transition for continuous, consistent, leak-proof flow. Molded manifolds reduce the risk of losing a valuable batch of product.

The main advantage of molded systems in comparison to regular hose barb systems is that they consist of one piece and do not have edges and barriers from HB connections, where potential leakage and dead spots occur. Available in wyes, tees, crosses, and reducers, as well as triclamp connections, molded connections reduce the total number of connectors that must be kept in inventory. Molded connections are available in both USP Class VI platinum-cured silicone and thermoplastic elastomers or TPEs.

SIZES AVAILABLE



Tube Size (Inch)	Tube Size (MM)
1/8" x 3/16"	3.17 x 4.7
1/8" x 1/4"	3.17 x 6.35
1/8" x 5/8"	3.17 x 15.8
3/16" x 1/4"	4.7 x 6.35
3/16" x 7/16"	4.7 x 11
1/4" x 7/16"	6.35 x 11
1/4" x 5/8"	6.35 x 15.8
1/4" x 3/4"	6.35 x 19
3/8" x 7/16"	9.52 x 11
3/8" x 5/8"	9.52 x 15.8
3/8" x 3/4"	9.52 x 19
1/2" x 5/8"	12.7 x 15.8
2 1/2" x 3/4"	12.7 x 19
3/4" x 1-1/4"	19 x 31.75

Tube Size (Inch)	Tube Size (MM)
1/8" x 3/16"	3.17 x 4.7
1/8" x 1/4"	3.17 x 6.35
1/8" x 5/8"	3.17 x 15.8
3/16" x 1/4"	4.7 x 6.35
3/16" x 7/16"	4.7 x 11
1/4" x 7/16"	6.35 x 11
1/4" x 5/8"	6.35 x 15.8
1/4" x 3/4"	6.35 x 19
3/8" x 7/16"	9.52 x 11
3/8" x 5/8"	9.52 x 15.8
3/8" x 3/4"	9.52 x 19
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1/4" x 5/8"	6.35 x 15.8
1/4" x 3/4"	6.35 x 19
3/8" x 7/16"	9.52 x 11
3/8" x 5/8"	9.52 x 15.8
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3/8" x 3/4"	9.52 x 19
1/2" x 5/8"	12.7 x 15.8
2 1/2" x 3/4"	12.7 x 19
3/4" x 1-1/4"	19 x 31.75

Manifold Single-Use Assembly

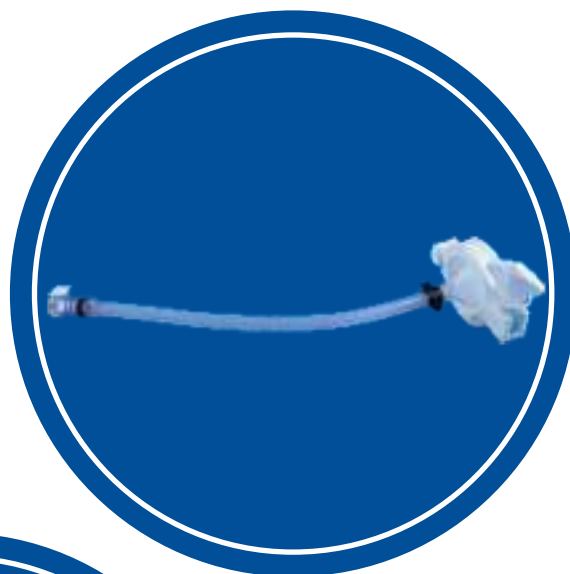
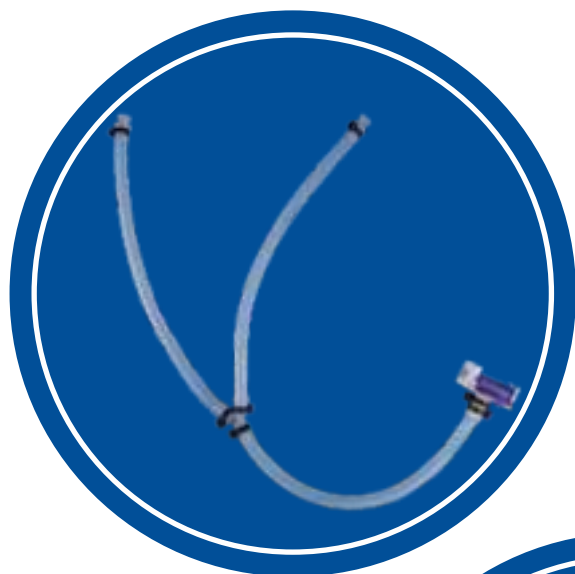
We offer customized manifold set designs using a wide variety of components and materials high-quality, cost-effective parts are produced and delivered with shorter lead times.

CHARACTERISTICS

- Tube manifolds are customized to meet exact process and design requirements
- Engineered with a range of tubing materials that are free from BPA, Latex, Phthalates, and ADI, ensuring the highest safety standards
- Complies to FDA 21 CFR 177 Standard
- USP Class VI approved materials
- BPOG Standardized extractable test available
- Assembled and packaged in a ISO Class 7 cleanroom
- Options include overmolded, barbed connectors, filters, bags, clamps and tubing

APPLICATIONS

- Buffer and media transfer (feeds, the addition of base/acid, anti-foam, growth medium, and other liquids)
- Collecting samples with zero risk of contamination
- Media filtration
- Inoculation
- Removal of liquids from bioprocesses
- Carboy assemblies
- Peristaltic pump tube assemblies



PUPSIT Assembly

The PUPSIT assembly (Pre-Use Post-Sterilization Integrity Testing) is a critical component in the biopharmaceutical industry, designed to ensure the integrity of sterile filters before use. It involves testing filters after sterilization but prior to product filtration, ensuring no damage occurred during the sterilization process. This testing is mandatory in certain applications, particularly for sterile drug production, to guarantee that no contaminants pass through the filter during critical processes. The PUPSIT assembly includes connections to filters, sterile tubing, and instruments for performing integrity tests. It helps maintain regulatory compliance with guidelines like those from the EMA (European Medicines Agency). By verifying the filter's performance post-sterilization, PUPSIT ensures that the final drug product remains sterile and safe for use, minimizing contamination risks.

CHARACTERISTICS

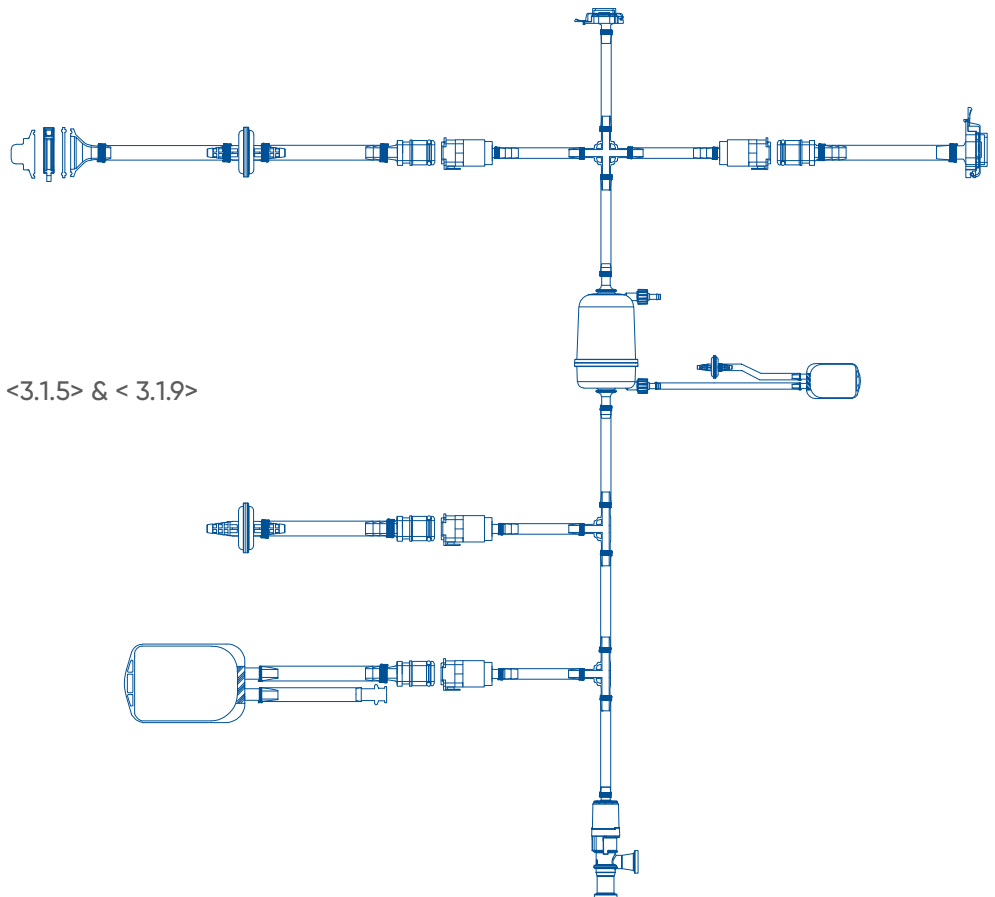
Designed to minimize the potential for filter integrity failure, thereby safeguarding the integrity and purity of valuable products, particularly in sterile drug product production, where a filter's integrity is tested before use to ensure it maintains sterility.

APPLICATIONS

- Sterile Drug Product Manufacturing
- Biopharmaceutical Processing
- Aseptic Fill-Finish Operations
- Critical Process Filtration

CERTIFICATIONS

- FDA 21 CFR 177.2600
- USP CLASS VI
- ISO 10993
- USP 85
- USP 788
- USP 661
- USP 381
- TSE/BSE FREE
- TESTED AS PER ISO <11737-1
- EUROPEAN PHARMACOPOEIA <3.1.5> & <3.1.9>
- BPOG EXTRACTABLE STUDIES



*Sizes can be customized as per process requirement



Transfer Bottle Assembly

Designed for efficient aseptic transfer, we offer a wide variety of stopper configurations, containers, and accessories that meet the rigorous standards of bio-pharmaceutical, laboratory, and life science industries.

FEATURES/BENEFITS

- Stoppers with multiple ports (positions or holes) that allow for easy access to bottle materials without full removal of the stopper.
- Innovative design featuring integrated strain relief to help prevent tube kinking.
- Bottle caps fit most industry bottles.
- Assembled and packaged in a Class 7 cleanroom
- Complies to FDA 21 CFR 177 Standard.
- USP Class VI approved materials
- Animal Derived Component Free (ADCF)
- Phthalate-free, BPA-free, REACH, and RoHS compliant

APPLICATIONS

- Sampling
- Seed culture
- Media preparation, storage, and transfer
- General lab research

GL45 Filter Cap

The single-use GL45 cap with 0.22 micron PTFE membrane is a critical component in the biopharmaceutical industry, designed for secure closure of bottles and containers. Its GL45 threading ensures compatibility with various vessels used in sterile applications. The PTFE membrane provides excellent chemical resistance and high temperature stability, making it suitable for autoclaving and use with aggressive solvents. This membrane allows for gas exchange while preventing contamination, maintaining sterility in sensitive biological samples and pharmaceutical products.

APPLICATIONS

- Aseptic sampling, filtration systems, and storage of biopharmaceuticals.
- The cap effectively prevents vacuum formation, ensuring safe liquid transfer.
- Ideal for single use bottle assembly.





Bellow Probe Assembly

A Solution for Bioprocessing Applications

Bellow probe assembly is designed to address the needs of the single-use disposable and biopharma industries. The bellows probe is designed for insertion of the pH and DO probes to aseptically connect them to a single-use bioreactor.

CHARACTERISTICS

These are offered in a wide range of internal dimensions to meet the process requirements. The manufacturing process is carried out in clean room of ISO Class 7 where the process is cautiously controlled from raw material to the finished product manufactured.

FEATURES/BENEFITS

- Biopharmaceutical grade
- Flexible body
- Easy installation
- Autoclavable and gamma sterilizable
- Quick Delivery Support

APPLICATIONS

- Single-Use Systems (SUS)
- Vaccine and biotherapeutic production
- Insertion of pH and DO probes into a single-use bioreactor

CERTIFICATIONS

- FDA 21 CFR 177. 2600
- USP Class VI

Single-Use Bags: 2D/3D/Liners

The single-use system is a process equipment solution. Compared with the traditional stainless steel system, it has the advantages of a lower initial cost, no cleaning, and speeding up the development and production progress. At present, it has been widely used in the field of bio-pharmaceuticals, such as vaccines, antibodies, gene and cell therapies, etc., in all processes from cell culture to preparation and filling.

The entire manufacturing process of single-use bags from raw material storage to product packaging is completed in an ISO Class 7 Cleanroom. APPL establishes and continuously maintains the company's quality assurance management system and cGMP. All the products are manufactured under a strict quality system to ensure stable and reliable quality.

The films have low extractables, low precipitation, good physical strength, chemical compatibility, and biocompatibility, and they meet all kinds of storage and transportation needs in the biopharmaceutical processes.

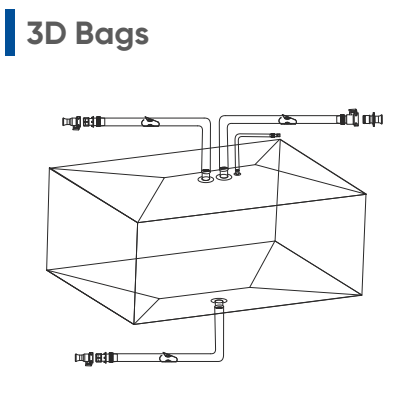
2D Bags



A 2D bag is typically used on relatively smaller bag assemblies (50 L and under) and is not often placed inside a supporting tank or container. Rather, these bags are often laid flat (such as in "rockers" or "rocking bags") or hung by the insert holes at the top of the bag. Support rods can be selected to help the bag maintain its shape while hung or carried.



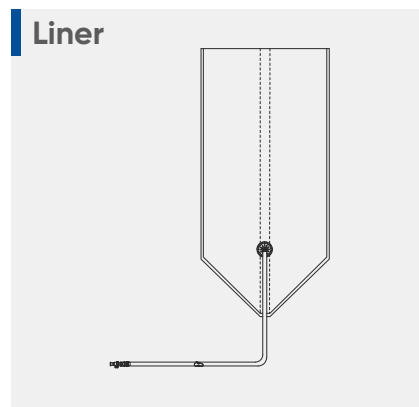
3D Bags



A 3D bag is often cuboidal in shape and is created by sealing multiple sheets of film together. These are often larger in volume than 2D bags (> 50 L) and are typically placed inside a supporting tank or container with proper design and construction, unassisted fill (UAF) 3D chambers can be designed that expand and deploy in their tanks as they are filled with minimal manipulation or oversight by an operator.



Liner



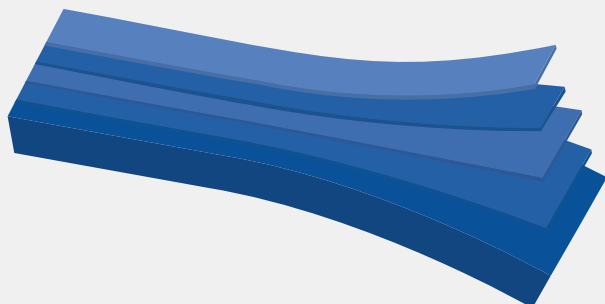
A liner is essentially an open-top bag meant to be placed inside a tank or containment vessel. This type is common in upstream media preparation when a top-down paddle mixer is in use. A liner can be non-gusseted or gusseted. A non-gusseted liner welds two faces together on the sides and bottom while a gusseted liner will have extra support. Panel welded into the bottom of the bag for better conformance to the tank, and more structural support. APPL can produce both gusseted and non-gusseted liners.



9101 Infuflex Film

SPECIFICATIONS

9101 film has five layers and is used to make single-use 2D and 3D bags. The thickness, materials, and performance of each layer are given below:



FILM COMPOSITION

	0.05 MM LDPE - Outer layer
	0.01 MM TIE - Bonding layer
	0.02 MM EVOH - Gas barrier layer
	0.01 MM TIE - Bonding layer
	0.23 MM ULDPE - Fluid contact layer

TECHNICAL DATA

POLYMER: PE, EVOH

MAIN APPLICATION AREAS: Biotechnology applications, high oxygen barrier

PHYSICAL PROPERTY*	UNIT OF MEASURE	TYPICAL VALUES Prior to / Post Sterilization	PROCEDURE
Haze	%	7/7	ASTM D-1003
Clarity	%	97/97	ASTM D-1003
Transmittance	%	93/93	ASTM D-1003
Tensile strength at break	MPa	14/13	ASTM D-882
Elongation at break, MD/TD	%	370/350	ASTM D-882
Elastic modulus	MPa	250/270	ASTM D-882
Break at cold temperature	°C	below -45/same	ISO 8570
Density	g/cm ³	0.9	ASTM D-792
Water vapour transmission rate**	gms./m ² /day (23° C, 100% RH)	0.35/0.32	ASTM F-1249
O ₂ permeability**	cm ³ /m ² /day/bar (23°C, 0%RH)	<0.05/<0.05	ASTM D-3985
Co ₂ permeability**	cm ³ /m ² /day/bar (23°C, 0%RH)	<0.2/<0.2	ASTM F-2476
Film thickness	0.325 mm		
Recommended sealing method:	Heat sealing		
Recommended sterilization method:	Gamma, E-Beam		
Formulation characteristics:	Multi-layer structure with inert PE fluid contact layer, low extractables/ leachables, no animal derived components.		
Pharmacopoeia compliancy and biocompatibility	ISO 10993-4 Hemolysis ISO 10993-5 Cytotoxicity ISO 10993-6 Implantation test ISO 10993-10 Irritation and Sensitization tests ISO 10993-11 Acute Systemic Toxicity test USP <85> Bacterial Endotoxins – LAL test USP <87> Biological Reactivity Test in vitro USP <88> Biological Reactivity Test in vivo, Class VI European Pharmacopoeia tests 3.1.5 USP <661.1> Polyethylene Physiochemical Tests, Extractable Metals, Plastic Additives***		

Copies of the pharmacopoeia and biocompatibility compliance test reports are available upon request

* Gauge test film 0.325 mm

Gamma sterilization dose 25 KGy except **50 KGy

*** Conformed to all requirements except TOC (Exceeds requirement because of EVOH presence).



Sterile Sampling System

A Solution for Bio-processing Applications

It is designed to ensure the utmost integrity of your critical sampling processes. This product stands as an impenetrable fortress against the threat of cross contamination. Elevate your sampling processes to new level of sterility with our sterile sampling system. Protect your operations, maintain product quality, and ensure compliance effortlessly.

CHARACTERISTICS

- Our sterile sampling systems minimize chances of false positives and reduce cleaning requirements over traditional sampling systems.
- We offer multiple options in our sterile sampling system, meeting wide range of process and requirements.

FEATURES/BENEFITS

- Contamination control
- Guarantees accurate and consistent result.
- Safe and Compliant
- Customization available

APPLICATIONS

- Ensures purity and quality during drug manufacturing
- Supports sterile sampling in cell culture and research
- Maintains quality during sample collection

CERTIFICATIONS

- Class VI Plastics as per USP <88>
- Cytotoxicity as per USP<87>
- USP < 85> Bacterial Endotoxins
- USP < 661.1> Extractable metals
- USP < 788> Sub visible particulate matter
- USP < 71> & ISO < 11737-1 Sterility assurance

SIZES

Catalogue no.	Description
2D-SS-050M-01	Sterile sampling system with 1 x 50ml bag
2D-SS-100M-01	Sterile sampling system with 1 x 100ml bag
2D-SS-250M-01	Sterile sampling system with 1 x 250ml bag
2D-SS-500M-01	Sterile sampling system with 1 x 500ml bag
2D-SS-001L-01	Sterile sampling system with 1 x 1L bag

MOC

Bag	9101 Infuflex Film
Tube	TPE and Silicone
Needless sampling port	Body- Polycarbonate Septum- Silicone
Female Luer Lock	Polypropylene
Male Luer Plug	Polypropylene
Sampling needle	Needle- SS 316L
	Body- Polypropylene Septum- silicone



Sampling Manifold

The sampling manifold is a critical component in the biopharmaceutical industry, designed to facilitate the aseptic collection of samples from various process streams. It typically consists of multiple ports, allowing for simultaneous sampling from different locations within a system, such as bioreactors or storage tanks. This manifold ensures that samples can be taken without compromising the sterility of the entire system, making it essential for quality control and compliance with regulatory standards. Sampling manifolds are often made from biocompatible materials to prevent contamination and maintain sample integrity. They are designed for easy integration into single-use systems, which simplifies handling and minimizes cleaning requirements. The design allows for the use of various sampling devices, such as syringes or bags, depending on the application needs. By enabling real-time monitoring of critical parameters, sampling manifolds support efficient process control and optimization. They are also crucial in validating the sterility and quality of biopharmaceutical products. Overall, sampling manifolds enhance operational efficiency and product safety in the biopharmaceutical manufacturing process.

CHARACTERISTICS

Sterile Sampling Systems are gamma irradiated single use disposable systems for aseptic fluid sampling at various stages in pharmaceutical and biopharmaceutical processing. These systems minimize chances of false positives and reduce cleaning requirements over traditional sampling systems.

APPLICATIONS

- Aseptic sampling of Sterile bulk and sterile transfers
- Aseptic sampling of Vaccine & biologics formulations at different maturation steps
- Aseptic sampling of Cell culture from bioreactors

SIZE AVAILABLE

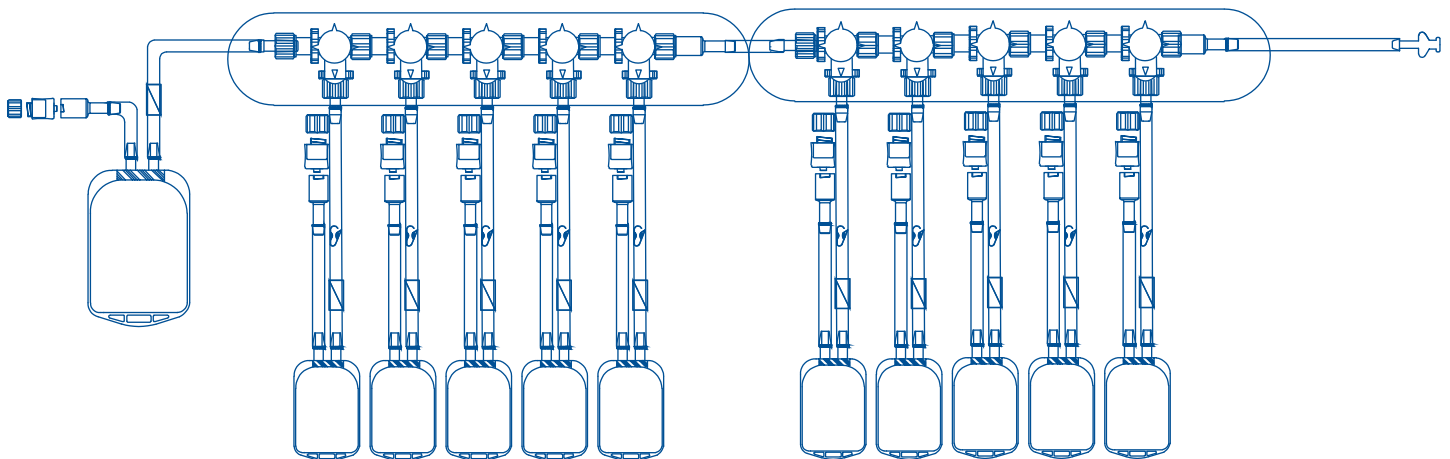
*Sizes can be customized as per process requirement

FEATURES

- Closed and easy to use
- Reduces risk of contamination
- Presterilized, eliminating the need for cleaning and/or sterilization between samples.
- Preconfigured or configured on site

CERTIFICATIONS

- USP Class VI
- USP <87>
- USP < 85> Bacterial Endotoxins –LAL test
- USP < 661.1> Extractable metals
- USP < 788> Sub visible particulate matter
- USP < 71> & ISO <11737-1 Sterility assurance



Customized Filling Bag

Multiline filling bag is a specialized single-use bioprocessing solution used for the sterile filling and storage of pharmaceutical products. Typically made from biocompatible materials, these bags feature multiple inlet and outlet lines, allowing for flexible and efficient fluid handling during filling, sampling, or draining processes. Their two-dimensional structure makes them ideal for Space-saving storage and handling.

CHARACTERISTICS

Single-use filling bags are typically gamma-sterilized to meet stringent aseptic requirements, reducing contamination risks. They are compatible with a wide range of drug substances and products and can be adapted for various process scales, from small batches to large-scale production. Additionally, these bags can be customized with connectors, ports, and tubing to integrate seamlessly into specific production systems.

APPLICATIONS

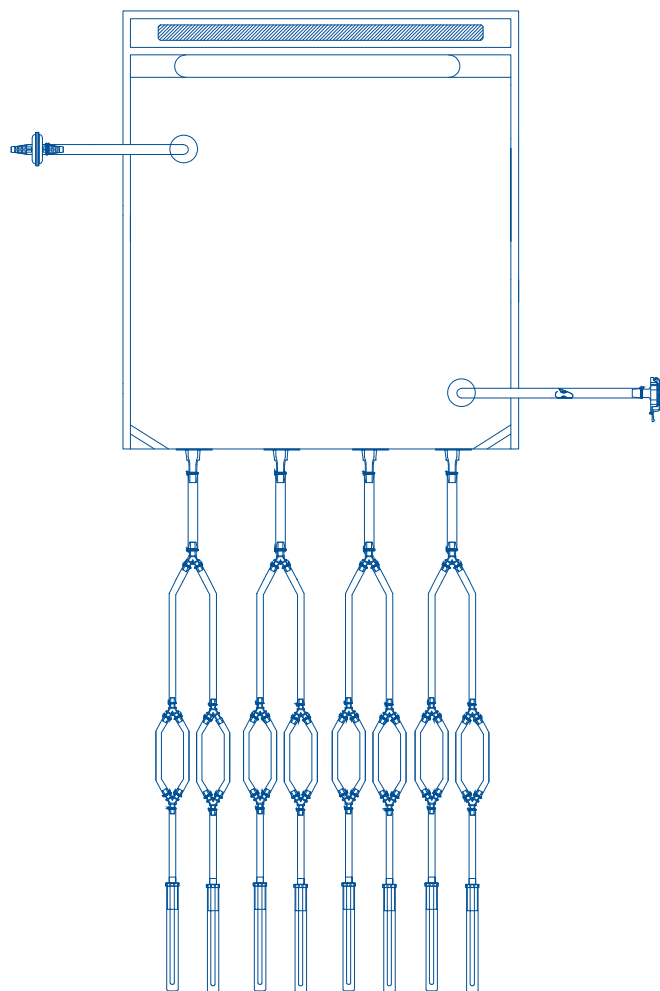
- Media and Buffer Storage
- Sampling Operations
- Product Transfer
- Bulk Drug Storage
- Sterile Drainage

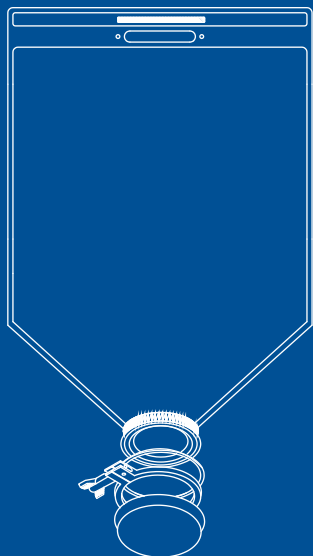
SIZES AVAILABLE

- 5L
- 10L
- 20L
- 50L

CERTIFICATIONS

- FDA 21 CFR 177.2600
- USP CLASS VI
- ISO 10993
- USP 85
- USP 788
- USP 661
- USP 381
- TSE/BSE FREE
- TESTED AS PER ISO <11737-1
- EUROPEAN PHARMACOPOEIA <3.1.5> & <3.1.9>
- BPOG EXTRACTABLE STUDIES





Powder Bag

A solutions for Bio-process Applications

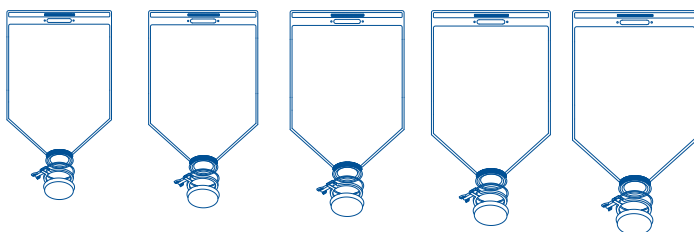
The powder bag is a specialized packaging solution used in the biopharmaceutical industry to safely handle and store powdered materials. These bags are designed to prevent the build up of static electricity, which can pose risks during the handling of fine powders, such as active pharmaceutical ingredients (APIs) and excipients. They are crucial during manufacturing processes where powders are mixed, transported, or stored, as static charges can lead to clumping or uneven distribution. Antistatic powder bags help maintain product integrity by protecting sensitive compounds from electrostatic discharge.

CHARACTERISTICS

The antistatic powder bags are designed to prevent the build-up of static electricity, reducing risks during the handling of fine powders like APIs and excipients. These bags protect product integrity by safeguarding sensitive compounds from electrostatic discharge, ensuring safe mixing, transport, and storage in the biopharmaceutical industry.

APPLICATIONS

- Storage of Active Pharmaceutical Ingredients (APIs)
- Transport of Powders
- Powder Mixing and Dispensing
- Controlled Environment Handling



CERTIFICATIONS

- FDA 21 CFR 177.2600
- USP CLASS VI
- ISO 10993
- USP 85
- USP 788
- USP 661
- USP 381
- TSE/BSE FREE
- TESTED AS PER ISO <11737-1
- EUROPEAN PHARMACOPOEIA <3.1.5> & < 3.1.9>
- BPOG EXTRACTABLE STUDIES

SIZES AVAILABLE

Size	Bag Sizes	Feeding Port Size
2D-005L-04PB-W	5L bag with blind cap	4" Port
2D-015L-04PB-W	15L bag with blind cap	4" Port
2D-030L-04PB-W	30L bag with blind cap	4" Port
2D-050L-04PB-W	50L bag with blind cap	4" Port
2D-005L-06PB-W	5L bag with blind cap	6" Port
2D-015L-06PB-W	15L bag with blind cap	6" Port
2D-030L-06PB-W	30L bag with blind cap	6" Port
2D-050L-06PB-W	50L bag with blind cap	6" Port

Size	Bag Sizes	Feeding Port Size
2D-005L-04PB	5L bag without blind cap	4" Port
2D-015L-04PB	15L bag without blind cap	4" Port
2D-030L-04PB	30L bag without blind cap	4" Port
2D-050L-04PB	50L bag without blind cap	4" Port
2D-005L-06PB	5L bag without blind cap	6" Port
2D-015L-06PB	15L bag without blind cap	6" Port
2D-030L-06PB	30L bag without blind cap	6" Port
2D-050L-06PB	50L bag without blind cap	6" Port



Mixer Bag

A Innovative Solution for Bio-pharmaceutical Mixing

It is designed to address the needs of single-use disposable and bio-pharmaceutical industries. It offers a wide range of internal dimensions to meet process requirements. The manufacturing process is carried out in a clean room of ISO Class 7, where the process is carefully controlled from the raw material to the finished product.

CHARACTERISTICS

- Our mixer bags are produced in an ISO Class 7 clean room, ensuring top-quality standards. We maintain a strong quality commitment with a quality assurance system and adhere to cGMP.
- Our advanced technology and expanded facilities enable us to offer top-tier products worldwide.

FEATURES/BENEFITS

- Tailored for specific process applications.
- Equipped with precision impeller for consistent mixing.
- Built for durability with high burst strength.
- 100% integrity confirmed with pressure leak test,
- Superior protection for product molecules and components.
- Easy inlet and outlet connections.

APPLICATIONS

APPL Mixer bags can be used in process and transfer of

- Cell culture media
- Buffers
- Process intermediates
- Formulations

SIZE AVAILABLE

Size	Catalogue no.	
	With Powder Port	Without Powder port
50L	3D-MB-050L-0401	3D-MB-050L-0402
100L	3D-MB-100L-0401	3D-MB-100L-0402
200L	3D-MB-200L-0401	3D-MB-200L-0402
500L	3D-MB-500L-0401	3D-MB-500L-0402
650L	3D-MB-650L-0401	3D-MB-650L-0402
1000L	3D-MB-1000L-0401	3D-MB-1000L-0402

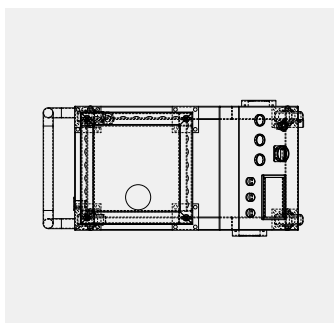
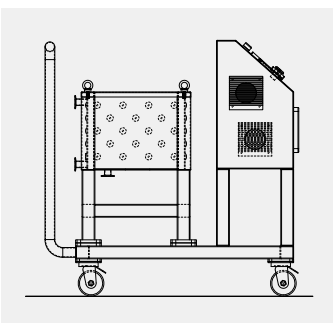
CERTIFICATIONS

- ISO 117 37-1
- USP <88> Biological reactivity tests, In Vivo
- USP <87> Biological reactivity tests, In Vitro
- USP <85>
- USP <788>
- USP <661>
- Extractables
- US FDA 21 CFR Part 210.3 (b) (6)
- 100% Integrity tested

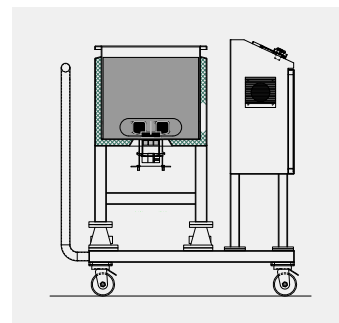
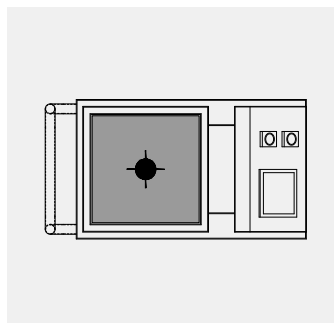


Bioprocessing Hardware

HOLDING TOTE



MIXING TOTE



TECHNICAL SPECIFICATIONS:

HARDWARE

Item Description	Specification
Capacity	25L, 50 L, 100 L, 200 L, 500L
Power	Single Phase 230 V, 50 Hz
Input Wattage	< 150 Watts
Mobility	Mounted on stainless cart with four clean room wheels and push handle
Material for Internal/ external surfaces	SS 304
Jacket (if any)	Honeycomb Jacketed
Insulation (if any)	Centrifugal glass wool
Surface Finish	Internal : MIRROR FINISH WITH EP Ra ≤ 0.4 μm External : MATT FINISH Ra ≤ 0.8 μm
Level Control	Load Cell
PH Sensor	As per customer requirement
Conductivity sensor	As per customer requirement
Temperature Sensor	As per customer requirement

SOFTWARE

Item Description	Specification
PLC	Make : Siemens/Mitsubishi/ Equivalent
HMI- Monitor	Make: Siemens/Mitsubishi/ Equivalent Display Size: 7" Touch screen SD Memory card size : 2GB
Software	User Management, Online Display of process, parameter, Alarms, PDF Batch report.

MAGNETIC DRIVE IMPELLER

Item Description	Specification
Speed	50-300 rpm
Impeller type	Radial flow
No of Blade	4
Installation Position	Centric

2D/3D Single-Use Bags

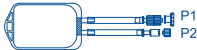
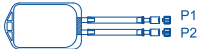
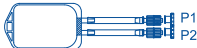
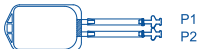
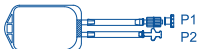
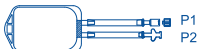
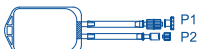
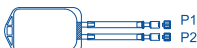
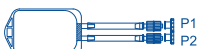

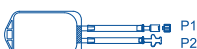
Single-use (2D or 3D) storage assemblies are designed for fluid mixing, handling, storage, and transportation. They are available in multiple sizes from 50 ml to 2000 L, and in a variety of configurations to suit your process application.

Tubing: Platinum-cured silicone, thermoplastic elastomer tubing.

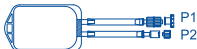
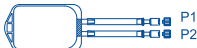
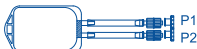
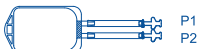
Standard line: Inlet, outlet, vent port, sample.

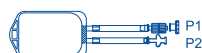
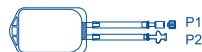
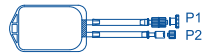
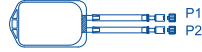
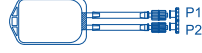
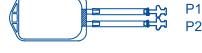
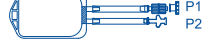

Connector: Y-reducer, Tee-reducer, cross-connector, straight-connector, reducer, TC connector, sampling connector and luer.

50ml Bags

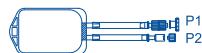
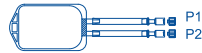
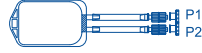
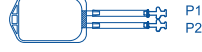
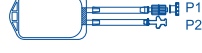








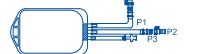

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" female luer lock and male plug	2D-050M-0201
	Port 1: PCS tube with 1/8" female luer lock and male plug Port 2: PCS tube with 1/8" female luer lock and male plug	2D-050M-0202
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" male luer lock and female plug	2D-050M-0203
	Port 1: PCS tube with 1/8" end plug Port 2: PCS tube with 1/8" end plug	2D-050M-0204
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" end plug	2D-050M-0205
	Port 1: PCS tube with 1/8" male luer lock and male plug Port 2: PCS tube with 1/8" end plug	2D-050M-0206
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" female luer lock and male plug	2D-050M-0207
	Port 1: TPE tube with 1/8" female luer lock and male plug Port 2: TPE tube with 1/8" female luer lock and male plug	2D-050M-0208
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" male luer lock and female plug	2D-050M-0209
	Port 1: TPE tube with 1/8" end plug Port 2: TPE tube with 1/8" end plug	2D-050M-0210
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" end plug	2D-050M-0211
	Port 1: PCS tube with 1/8" female luer lock and male plug Port 2: PCS tube with 1/8" end plug	2D-050M-0212

250ml Bags

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" female luer lock and male plug	2D-250M-0201
	Port 1: PCS tube with 1/8" female luer lock and male plug Port 2: PCS tube with 1/8" female luer lock and male plug	2D-250M-0202
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" male luer lock and female plug	2D-250M-0203
	Port 1: PCS tube with 1/8" end plug Port 2: PCS tube with 1/8" end plug	2D-250M-0204

	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" end plug	2D-250M-0205
	Port 1: PCS tube with 1/8" male luer lock and male plug Port 2: PCS tube with 1/8" end plug	2D-250M-0206
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" female luer lock and male plug	2D-250M-0207
	Port 1: TPE tube with 1/8" female luer lock and male plug Port 2: TPE tube with 1/8" female luer lock and male plug	2D-250M-0208
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" male luer lock and female plug	2D-250M-0209
	Port 1: TPE tube with 1/8" end plug Port 2: TPE tube with 1/8" end plug	2D-250M-0210
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" end plug	2D-250M-0211
	Port 1: PCS tube with 1/8" female luer lock and male plug Port 2: PCS tube with 1/8" end plug	2D-250M-0212

500ml Bags

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" female luer lock and male plug	2D-500M-0201
	Port 1: PCS tube with 1/8" female luer lock and male plug Port 2: PCS tube with 1/8" female luer lock and male plug	2D-500M-0201
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" male luer lock and female plug	2D-500M-0203
	Port 1: PCS tube with 1/8" end plug Port 2: PCS tube with 1/8" end plug	2D-500M-0204
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" end plug	2D-500M-0205
	Port 1: PCS tube with 1/8" male luer lock and male plug Port 2: PCS tube with 1/8" end plug	2D-500M-0206
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" female luer lock and male plug	2D-500M-0207
	Port 1: TPE tube with 1/8" female luer lock and male plug Port 2: TPE tube with 1/8" female luer lock and male plug	2D-500M-0208
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" male luer lock and female plug	2D-500M-0209
	Port 1: TPE tube with 1/8" end plug Port 2: TPE tube with 1/8" end plug	2D-500M-0210
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" end plug	2D-500M-0211
	Port 1: PCS tube with 1/8" female luer lock and male plug Port 2: PCS tube with 1/8" end plug	2D-500M-0212
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-500M-0301
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" end plug	2D-500M-0302
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug Port 3: PCS tube with 1/4" end plug	2D-500M-0303



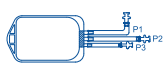
Port 1: TPE tube with 3/8" male insert and female plug
 Port 2: TPE tube with 3/8" male insert and female plug
 Port 3: TPE tube with 1/4" female luer lock and male plug

2D-500M-0304



Port 1: TPE tube with 3/8" male insert and female plug
 Port 2: TPE tube with 3/8" male insert and female plug
 Port 3: TPE tube with 1/4" end plug

2D-500M-0305



Port 1: TPE tube with 3/8" end plug
 Port 2: TPE tube with 3/8" end plug
 Port 3: TPE tube with 1/4" end plug

2D-500M-0306

1L Bags

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" female luer lock and male plug	2D-001L-0201
	Port 1: PCS tube with 1/8" female luer lock and male plug Port 2: PCS tube with 1/8" female luer lock and male plug	2D-001L-0202
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" male luer lock and female plug	2D-001L-0203
	Port 1: PCS tube with 1/8" end plug Port 2: PCS tube with 1/8" end plug	2D-001L-0204
	Port 1: PCS tube with 1/8" male luer lock and female plug Port 2: PCS tube with 1/8" end plug	2D-001L-0205
	Port 1: PCS tube with 1/8" male luer lock and male plug Port 2: PCS tube with 1/8" end plug	2D-001L-0206
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" female luer lock and male plug	2D-001L-0207
	Port 1: TPE tube with 1/8" female luer lock and male plug Port 2: TPE tube with 1/8" female luer lock and male plug	2D-001L-0208
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" male luer lock and female plug	2D-001L-0209
	Port 1: TPE tube with 1/8" end plug Port 2: TPE tube with 1/8" end plug	2D-001L-0210
	Port 1: TPE tube with 1/8" male luer lock and female plug Port 2: TPE tube with 1/8" end plug	2D-001L-0211
	Port 1: PCS tube with 1/8" female luer lock and male plug Port 2: PCS tube with 1/8" end plug	2D-001L-0212

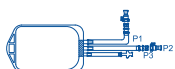
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Drawing	Description	Catalogue No.
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-002L-0301
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" end plug	2D-002L-0302
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug Port 3: PCS tube with 1/4" end plug	2D-002L-0303



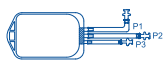
Port 1: TPE tube with 3/8" male insert and female plug
 Port 2: TPE tube with 3/8" male insert and female plug
 Port 3: TPE tube with 1/4" female luer lock and male plug

2D-002L-0304



Port 1: TPE tube with 3/8" male insert and female plug
 Port 2: TPE tube with 3/8" male insert and female plug
 Port 3: TPE tube with 1/4" end plug

2D-002L-0305



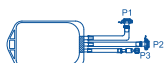
Port 1: TPE tube with 3/8" end plug
 Port 2: TPE tube with 3/8" end plug
 Port 3: TPE tube with 1/4" end plug

2D-002L-0306



Port 1: PCS tube with 3/8" AseptiQuick G
 Port 2: PCS tube with 3/8" male insert and female plug
 Port 3: PCS tube with 1/4" female luer lock and male plug

2D-002L-0307



Port 1: PCS tube with 3/8" AseptiQuick G
 Port 2: PCS tube with 3/8" AseptiQuick G
 Port 3: PCS tube with 1/4" female luer lock and male plug






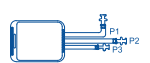


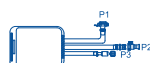
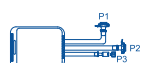
2D-002L-0308



Port 1: TPE tube with 3/8" AseptiQuick G
 Port 2: TPE tube with 3/8" male insert and female plug
 Port 3: TPE tube with 1/4" female luer lock and male plug

2D-002L-0309


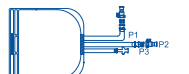
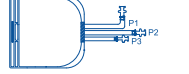


5L Bags

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-005L-0301
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" end plug	2D-005L-0302
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug Port 3: PCS tube with 1/4" end plug	2D-005L-0303
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" female luer lock and male plug	2D-005L-0304
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" end plug	2D-005L-0305
	Port 1: TPE tube with 3/8" end plug Port 2: TPE tube with 3/8" end plug Port 3: TPE tube with 1/4" end plug	2D-005L-0306
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-005L-0307
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G Port 3: PCS tube with 1/4" female luer lock and male plug	2D-005L-0308
	Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" female luer lock and male plug	2D-005L-0309
	Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G Port 3: TPE tube with 1/4" female luer lock and male plug	2D-005L-0310

10L Bags

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-010L-0301
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" end plug	2D-010L-0302
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug Port 3: PCS tube with 1/4" end plug	2D-010L-0303
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" female luer lock and male plug	2D-010L-0304
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" end plug	2D-010L-0305
	Port 1: TPE tube with 3/8" end plug Port 2: TPE tube with 3/8" end plug Port 3: TPE tube with 1/4" end plug	2D-010L-0306
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-010L-0307
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G Port 3: PCS tube with 1/4" female luer lock and male plug	2D-010L-0308
	Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" female luer lock and male plug	2D-010L-0309
	Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G Port 3: TPE tube with 1/4" female luer lock and male plug	2D-010L-0310

20L Bags

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-020L-0301
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" end plug	2D-020L-0302
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug Port 3: PCS tube with 1/4" end plug	2D-020L-0303
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" female luer lock and male plug	2D-020L-0304
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" end plug	2D-020L-0305



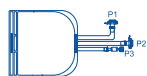
Port 1: TPE tube with 3/8" end plug
Port 2: TPE tube with 3/8" end plug
Port 3: TPE tube with 1/4" end plug

2D-020L-0306



Port 1: PCS tube with 3/8" AseptiQuick G
Port 2: PCS tube with 3/8" male insert and female plug
Port 3: PCS tube with 1/4" female luer lock and male plug

2D-020L-0307



Port 1: PCS tube with 3/8" AseptiQuick G
Port 2: PCS tube with 3/8" AseptiQuick G
Port 3: PCS tube with 1/4" female luer lock and male plug

2D-020L-0308



Port 1: TPE tube with 3/8" AseptiQuick G
Port 2: TPE tube with 3/8" male insert and female plug
Port 3: TPE tube with 1/4" female luer lock and male plug

2D-020L-0309



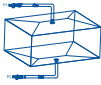

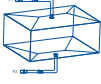

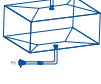



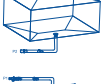
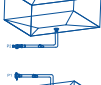
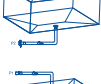
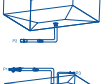
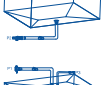
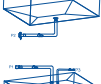
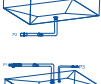
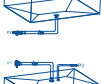
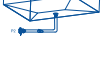
Port 1: TPE tube with 3/8" AseptiQuick G
Port 2: TPE tube with 3/8" AseptiQuick G
Port 3: TPE tube with 1/4" female luer lock and male plug

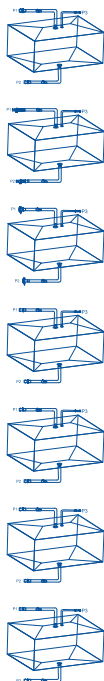
2D-020L-0310

50L Bags

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-050L-0301
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" end plug	2D-050L-0302
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug Port 3: PCS tube with 1/4" end plug	2D-050L-0303
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" female luer lock and male plug	2D-050L-0304
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" end plug	2D-050L-0305
	Port 1: TPE tube with 3/8" end plug Port 2: TPE tube with 3/8" end plug Port 3: TPE tube with 1/4" end plug	2D-050L-0306
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	2D-050L-0307
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G Port 3: PCS tube with 1/4" female luer lock and male plug	2D-050L-0308
	Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" male insert and female plug Port 3: TPE tube with 1/4" female luer lock and male plug	2D-050L-0309
	Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G Port 3: TPE tube with 1/4" female luer lock and male plug	2D-050L-0310

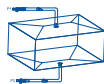
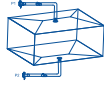
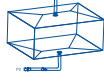
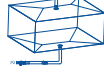

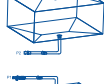
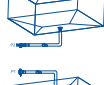
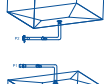
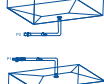

100L Bags

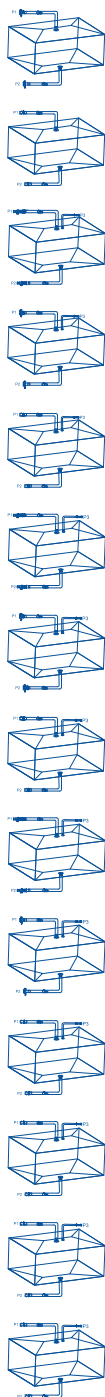
Drawing	Description	Catalogue No.
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug	3D-100L-0201
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G	3D-100L-0202
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug	3D-100L-0203
	Port 1: PCS tube with 1/2" male insert and female plug Port 2: PCS tube with 1/2" male insert and female plug	3D-100L-0204
	Port 1: PCS tube with 1/2" AseptiQuick G Port 2: PCS tube with 1/2" AseptiQuick G	3D-100L-0205
	Port 1: PCS tube with 1/2" End plug Port 2: PCS tube with 1/2" End plug	3D-100L-0206
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug	3D-100L-0207
	Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G	3D-100L-0208
	Port 1: TPE tube with 3/8" End plug Port 2: TPE tube with 3/8" End plug	3D-100L-0209
	Port 1: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/2" male insert and female plug	3D-100L-0210
	Port 1: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/2" AseptiQuick G	3D-100L-0211
	Port 1: TPE tube with 1/2" End plug Port 2: TPE tube with 1/2" End plug	3D-100L-0212
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	3D-100L-0301
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G Port 3: PCS tube with 1/4" female luer lock and male plug	3D-100L-0302
	Port 1: PCS tube with 1/2" male insert and female plug Port 2: PCS tube with 1/2" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	3D-100L-0303
	Port 1: PCS tube with 1/2" AseptiQuick G Port 2: PCS tube with 1/2" AseptiQuick G Port 3: PCS tube with 1/4" female luer lock and male plug	3D-100L-0304
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 1/4" female luer lock and male plug	3D-100L-0305



Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 1/4" female luer lock and male plug	3D-100L-0306
Port 1: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/4" female luer lock and male plug	3D-100L-0307
Port 1: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/4" female luer lock and male plug	3D-100L-0308
Port 1: PCS tube with 3/8" End plug Port 2: PCS tube with 3/8" End plug Port 2: PCS tube with 1/4" End plug	3D-100L-0309
Port 1: PCS tube with 1/2" End plug Port 2: PCS tube with 1/2" End plug Port 2: PCS tube with 1/4" End plug	3D-100L-0310
Port 1: TPE tube with 3/8" End plug Port 2: TPE tube with 3/8" End plug Port 2: TPE tube with 1/4" End plug	3D-100L-0311
Port 1: TPE tube with 1/2" End plug Port 2: TPE tube with 1/2" End plug Port 2: TPE tube with 1/4" End plug	3D-100L-0312


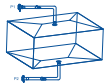

200L Bags

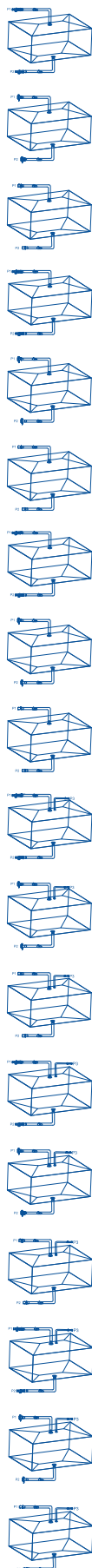
Drawing	Description	Catalogue No.
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug	3D-200L-0201
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G	3D-200L-0202
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug	3D-200L-0203
	Port 1: PCS tube with 1/2" male insert and female plug Port 2: PCS tube with 1/2" male insert and female plug	3D-200L-0204
	Port 1: PCS tube with 1/2" AseptiQuick G Port 2: PCS tube with 1/2" AseptiQuick G	3D-200L-0205
	Port 1: PCS tube with 1/2" End plug Port 2: PCS tube with 1/2" End plug	3D-200L-0206
	Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug	3D-200L-0207
	Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G	3D-200L-0208
	Port 1: TPE tube with 3/8" End plug Port 2: TPE tube with 3/8" End plug	3D-200L-0209
	Port 1: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/2" male insert and female plug	3D-200L-0210



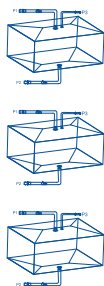
Port 1: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/2" AseptiQuick G	3D-200L-0211
Port 1: TPE tube with 1/2" End plug Port 2: TPE tube with 1/2" End plug	3D-200L-0212
Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	3D-200L-0301
Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 1/4" female luer lock and male plug	3D-200L-0302
Port 1: PCS tube with 1/2" male insert and female plug Port 2: PCS tube with 1/2" male insert and female plug Port 2: PCS tube with 1/4" female luer lock and male plug	3D-200L-0303
Port 1: PCS tube with 1/2" AseptiQuick G Port 2: PCS tube with 1/2" AseptiQuick G Port 2: PCS tube with 1/4" female luer lock and male plug	3D-200L-0304
Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 1/4" female luer lock and male plug	3D-200L-0305
Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 1/4" female luer lock and male plug	3D-200L-0306
Port 1: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/4" female luer lock and male plug	3D-200L-0307
Port 1: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/4" female luer lock and male plug	3D-200L-0308
Port 1: PCS tube with 3/8" End plug Port 2: PCS tube with 3/8" End plug Port 2: PCS tube with 1/4" End plug	3D-200L-0309
Port 1: PCS tube with 1/2" End plug Port 2: PCS tube with 1/2" End plug Port 2: PCS tube with 1/4" End plug	3D-200L-0310
Port 1: TPE tube with 3/8" End plug Port 2: TPE tube with 3/8" End plug Port 2: TPE tube with 1/4" End plug	3D-200L-0311
Port 1: TPE tube with 1/2" End plug Port 2: TPE tube with 1/2" End plug Port 2: TPE tube with 1/4" End plug	3D-200L-0312

500L Bags

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug	3D-500L-0201
	Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G	3D-500L-0202
	Port 1: PCS tube with 3/8" end plug Port 2: PCS tube with 3/8" end plug	3D-500L-0203



Port 1: PCS tube with 1/2" male insert and female plug Port 2: PCS tube with 1/2" male insert and female plug	3D-500L-0204
Port 1: PCS tube with 1/2" AseptiQuick G Port 2: PCS tube with 1/2" AseptiQuick G	3D-500L-0205
Port 1: PCS tube with 1/2" End plug Port 2: PCS tube with 1/2" End plug	3D-500L-0206
Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug	3D-500L-0207
Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G	3D-500L-0208
Port 1: TPE tube with 3/8" End plug Port 2: TPE tube with 3/8" End plug	3D-500L-0209
Port 1: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/2" male insert and female plug	3D-500L-0210
Port 1: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/2" AseptiQuick G	3D-500L-0211
Port 1: TPE tube with 1/2" End plug Port 2: TPE tube with 1/2" End plug	3D-500L-0212
Port 1: PCS tube with 3/8" male insert and female plug Port 2: PCS tube with 3/8" male insert and female plug Port 3: PCS tube with 1/4" female luer lock and male plug	3D-500L-0301
Port 1: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 3/8" AseptiQuick G Port 2: PCS tube with 1/4" female luer lock and male plug	3D-500L-0302
Port 1: PCS tube with 1/2" male insert and female plug Port 2: PCS tube with 1/2" male insert and female plug Port 2: PCS tube with 1/4" female luer lock and male plug	3D-500L-0303
Port 1: PCS tube with 1/2" AseptiQuick G Port 2: PCS tube with 1/2" AseptiQuick G Port 2: PCS tube with 1/4" female luer lock and male plug	3D-500L-0304
Port 1: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 3/8" male insert and female plug Port 2: TPE tube with 1/4" female luer lock and male plug	3D-500L-0305
Port 1: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 3/8" AseptiQuick G Port 2: TPE tube with 1/4" female luer lock and male plug	3D-500L-0306
Port 1: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/2" male insert and female plug Port 2: TPE tube with 1/4" female luer lock and male plug	3D-500L-0307
Port 1: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/2" AseptiQuick G Port 2: TPE tube with 1/4" female luer lock and male plug	3D-500L-0308
Port 1: PCS tube with 3/8" End plug Port 2: PCS tube with 3/8" End plug Port 2: PCS tube with 1/4" End plug	3D-500L-0309



Port 1: PCS tube with 1/2" End plug
 Port 2: PCS tube with 1/2" End plug
 Port 2: PCS tube with 1/4" End plug

3D-500L-0310

Port 1: TPE tube with 3/8" End plug
 Port 2: TPE tube with 3/8" End plug
 Port 2: TPE tube with 1/4" End plug

3D-500L-0311

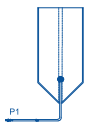
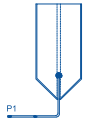
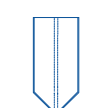
Port 1: TPE tube with 1/2" End plug
 Port 2: TPE tube with 1/2" End plug
 Port 2: TPE tube with 1/4" End plug

3D-500L-0312

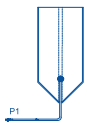
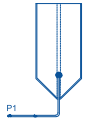
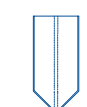
2D/3D Single-Use Tank Liners

Single-use tank liners are manufactured in an ISO Class 7 environment, packaged in a clean room, irradiated, and delivered sterile. Tank liners are available to improve your process for open tank applications. The use of liners eliminates cleaning and turnover concerns associated with reusable stainless tanks. Single-use tank liners are available with a bottom drain port or without a bottom drain port.

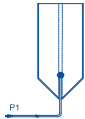
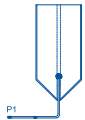

50L Liner

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 1/2" male insert and female plug	3D-L-050L-0101
	Port 1: PCS tube with 1/2" end plug	3D-L-050L-0102
	Liner without drain port	3D-L-050L-0103

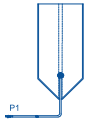
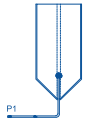

100L Liner

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 1/2" male insert and female plug	3D-L-100L-0101
	Port 1: PCS tube with 1/2" end plug	3D-L-100L-0102
	Liner without drain port	3D-L-100L-0103





200L Liner

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 1/2" male insert and female plug	3D-L-200L-0101
	Port 1: PCS tube with 1/2" end plug	3D-L-200L-0102
	Liner without drain port	3D-L-200L-0103

500L Liner

Drawing	Description	Catalogue No.
	Port 1: PCS tube with 1/2" male insert and female plug	3D-L-500L-0101
	Port 1: PCS tube with 1/2" end plug	3D-L-500L-0102
	Liner without drain port	3D-L-500L-0103

2D Tank Liner

Drawing	Description	Catalogue No.
	2D Liner 50 ml	2D-L-050M-0001
	2D Liner 250 ml	2D-L-250M-0001
	2D Liner 500 ml	2D-L-500M-0001
	2D Liner 1 L	2D-L-001L-0001



2D Liner 2 L

2D-L-002L-0001



2D Liner 5 L

2D-L-005L-0001



2D Liner 10 L

2D-L-010L-0001



2D Liner 20 L

2D-L-020L-0001



2D Liner 50 L

2D-L-050L-0001

* PCS : Platinum-Cured Silicone

* TPE : Thermoplastic Elastomer Tube





Imapure[®]

Platinum-Cured Silicone Tubing for Critical Pharmaceutical Applications

Imapure[®] is platinum-cured silicone tubing designed for peristaltic pump and fluid transfer process in pharmaceutical and biotech industries. Imapure[®] is translucent silicone tubing known for its ultra smooth bore to prevent any particle entrapment. It is specially designed to comply with requirements of critical food and pharmaceutical standards of regulatory markets.

ImaFrost[®]

Ultra-low Temperature Resistant Silicone Tubing

Designed for low-temperature bulk drug storage and transport, ImaFrost tubing remains flexible and dimensionally stable at extreme temperatures down to -112°C. Manufactured and packaged in clean room of Class 7, it complies with TSE/BSE-free and nitrosamine-free standards. Customizable for single-use systems, it offers sterilization options, laser coding for traceability, and online auto-inspected quality assurance.



CERTIFICATIONS

- FDA 21 CFR 177.2600
- GERMAN BFR XV
- FRANCE ARRETE DU 25
- USP CLASS VI
- ISO 10993-11
- ISO 10993-10
- ISO 10993-5
- ISO 10993-4
- RoHS Compliant
- TSE / BSE FREE
- NSF - 51
- USP CLASS 87
- BPA free
- BPOG based Extractables Studies
- PHTHALATE-free
- ISO 10993-3
- European Pharmacopoeia E.P.3.1.9
- FDA DMF#26201

Validation pack available upon request.

It covers the manufacturing process, physical properties, MSDS, chemical compatibility chart, Toxicological studies, biocompatibility studies, and extractable studies



Imaweld®

Thermoplastic Elastomer Tube with Heat Sealable and Weldable Properties

Imaweld® is a thermoplastic elastomer tubing designed for cell culture processes in the biotech industry. It is widely used in biopharmaceutical applications to transfer critical fluids. Imaweld® is specially formulated to have heat sealing and welding properties.

CHARACTERISTICS

- Free of any toxic ingredients, it successfully meets toxicity-free requirements
- Manufactured and packaged in a cleanroom of class 10000 facility audited by TUV Nord
- Heat sealable and weldable facilitate sterile connection
- Good flexibility and surface finish with custom dimensions and lengths are available
- Excellent acid and alkali resistance
- Smooth bore surfaces to eliminate particle entrapment
- DMF #32560 accredited by USFDA
- Available in opaque white (Imaweld® -W) and Transparent color (Imaweld® -T)

CERTIFICATIONS

- FDA 21 CFR 177.2600
- USP CLASS VI
- BPOG based Extractables Studies
- BPA free
- PHTHALATE-FREE
- USP CLASS 87
- ISO 10993-11
- RoHS Compliant
- ISO 10993-5
- TSE/BSE FREE
- ISO 10993-4
- Particle Free

APPLICATIONS

- Cell culture processing
- Bio-pharma and fermentation applications
- Biosimilar product manufacturing
- Microbiological Application

STERILIZATION METHODS



Validation pack available upon request.

It covers the manufacturing process, physical properties, MSDS, chemical compatibility chart, Toxicological studies, biocompatibility studies, and extractable studies



Wall Thru Assembly

Wall thru assembly is used for aseptic transfer of fluids between the walls of biopharma manufacturing industries and offers complete isolation between different classes of cleanrooms when transferring multiple lines of fluid through a single wall port.

FEATURES

- Single-use components eliminate the need to clean and validate traditional hard piping transfer lines.
- Provides a reliable method for transferring fluids without physically moving bins and totes.
- Single-use process components consisting of platinum-cured silicone or TPE tubing are used.
- Available in customized sizes with standardized parts for each application, including a choice of end connections.

CERTIFICATIONS

- FDA 21 CFR 177.2600
- USP CLASS VI
- TSE / BSE FREE

SIZES AVAILABLE

- 1 Port
- 2 Port
- 3 Port
- 4 Port

Our Presence In World



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MANUFACTURING UNIT- I

Plot No. 66-D/E, Govt. Industrial Estate, Near Beekaylon Factory, Masat, Silvassa, UT of Dadra & Nagar Haveli and Daman & Diu, India 396230

MANUFACTURING UNIT- II

Survey No. 106/2/1, 106/2/2, 113/3/P1, Opp. Guarniflon India Pvt. Ltd, Karajgam Road, Village Kala, Khanvel, UT of Dadra & Nagar Haveli and Daman & Diu, India 396230



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