



TABLE OF CONTENTS

ASI OVERVIEW

ASI at a Glance	3
Custom Process	4

FLUID MANAGEMENT

Open / Closed / Welded-Closed Systems	5
Connectors	6
PL-01026 / PL-01077 Polyethylene (PE) Bags	7
Capsule Filters	12
PL-01026 / PL-01077 Polyethylene (PE) 3-D Bags	14
PL-01026 Tank Liners	18
PL-01077 Polyethylene (PE) Bags	21
PL-01028 Ethyl Vinyl Acetate (EVA) Bags	24
Transfer Assemblies	28

EQUIPMENT

imPULSE Single-Use Mixing System	30
imPULSE Mixing Bag Components	32
inSITE Inflation & Integrity Test System	36
inFUSE Filling System	38
three 60 Sampling System	40
Tube Welders	42

TANKS & CONTAINERS

Product Overview	44
Collapsible / Stackable Stainless Steel Tank	46
Collapsible / Stackable Plastic Tank	47
Production Tank	48
Plastic Drum	49
Single-Use Protective Containers	50

SALES INFORMATION

Customer Service, Operations and Sales	51
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ASI AT A GLANCE

WE DESIGN AND MANUFACTURE EXCELLENCE

ASI is a leading global provider of advanced single-use systems for the Healthcare and Life Sciences Industries. ASI's manufacturing and corporate headquarters are in Pennsylvania, United States with an additional production facility in Matamoros, Mexico.

Life Sciences – ASI's fully customized systems allow Bio-Pharmaceutical manufacturers the flexibility to maximize efficiencies, minimize costs and alleviate risks in the production of Bio-Pharm applications. Closely allied with industry suppliers, the company is dedicated to providing the flexibility to integrate single-use systems for the Bio-Pharmaceutical Manufacturers' unique processes.

Healthcare – Medical OEMs have trusted ASI for over twenty-five years to design and manufacture solutions for the medical device, diagnostic and drug delivery markets. The company partners with its customers to develop solutions, which are safe, innovative and cost competitive. ASI's success comes from its experience to integrate design, molding and automation to deliver low cost, high quality manufacturing solutions.

The company's Quality Management System and award-winning ERP System allows ASI the ability to provide an unparalleled level of customization rapidly and error free. ASI's constant diligence toward quality and service have allowed the company to provide fully customized systems in the industry's shortest lead-time with the highest level of quality, which this industry has come to expect.

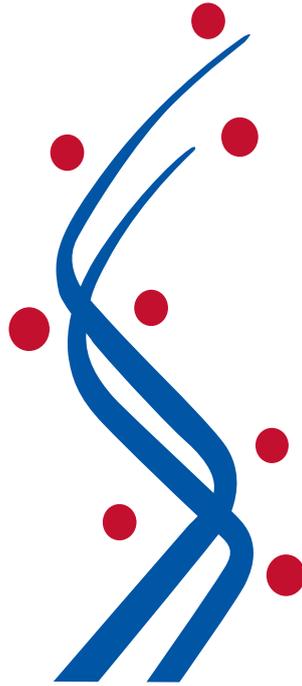
ASI's ISO Class 7 and ISO Class 8 Clean Rooms are rigorously monitored through in-house Quality Management and Third Party Audits. ASI single-use systems are manufactured in compliance to the ISO 13485:2003 Certification and FDA Regulations.



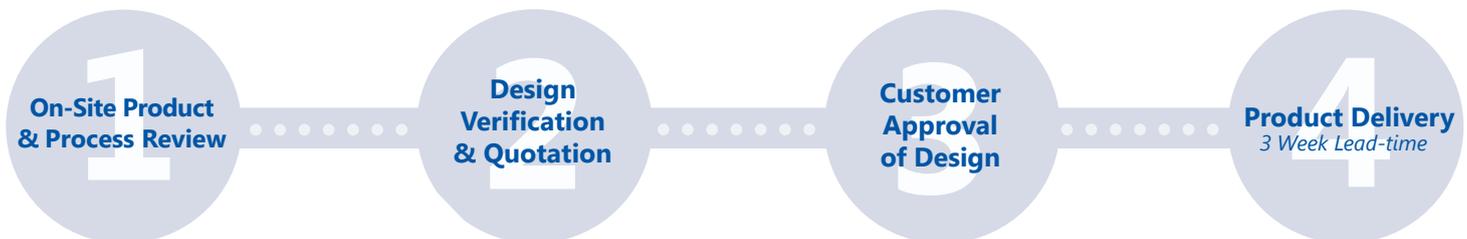
MILLERSBURG, PA



MATAMOROS, MX



THE STANDARD IN
custom
PRODUCTS THAT FIT YOUR PROCESS



1 ON-SITE PRODUCT & PROCESS REVIEW

ASI's Project Manager will review your process requirements to ensure we understand and meet your specifications.

2 DESIGN VERIFICATION & QUOTATION

Once the product requirements are confirmed, ASI's Project Manager will provide complete drawings and a quotation.

3 CUSTOMER APPROVAL OF DESIGN

The customer will review ASI's design, quotation, pre-production requirements and provide approval of the finished specifications, via signature.

4 PRODUCT DELIVERY

With all of the requirements in place, ASI manufactures and sterilizes your product and delivers it accurate, complete and on-time.



Denotes Open System
Throughout the catalog "open system" is labeled by this symbol

OPEN SYSTEMS

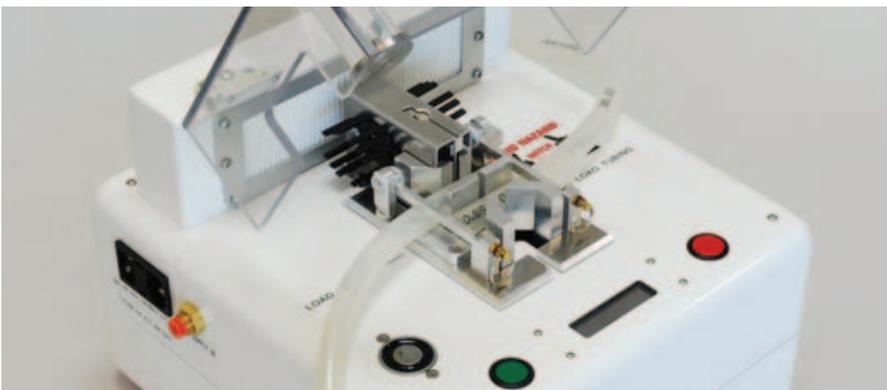
Open System is a term depicting the connectivity of tube sets and bag systems. Although the assemblies are provided sterilized, the connections must be made in a clean room under a laminar flow hood, using an aseptic technique. The connectors, and therefore, systems are less expensive, however present a risk factor dependent upon technician technique.



Denotes Closed System
Throughout the catalog "closed system" is labeled by this symbol.

CLOSED SYSTEMS

Closed System is the ability to make sterile fluid transfers in a non-sterile environment utilizing capsule filters, single-use valves and aseptic connectors. ASI offers a multitude of products that support closed system fluid transfers and will develop a custom system to meet your needs.



Denotes Welded-Closed System
Throughout the catalog "welded-closed system" is labeled by this symbol.

WELDED-CLOSED SYSTEMS

Tube welders allow for "Welded-Closed System" sterile fluid path connections to be made when using single-use systems. The need for a laminar flow hood, filters, valves and connectors are not necessary when using a tube welder to make sterile fluid transfers. The process allows the connection of multiple fluid paths utilizing C-Flex or equivalent Thermo Plastic Elastomer (TPE) tubing.

  * Products marked with more than one symbol can be open or closed dependant upon the connection type.

CONNECTORS



MPC CONNECTORS

The MPC Connector is a Colder Connector product with a 3/8" flow path and is available for 1/4" and 3/8" tube sizes. The MPC connector assures a quick connection and has a locking feature to couple the male and female body. MPC is available for irradiated or autoclave options. www.Colder.com

MPX CONNECTORS

The MPX Connector is a Colder Connector product, and is used for larger flow, allowing connections to 3/8" and 1/2" tubes. The MPX connector assures closure and easy disconnection. MPX is available for irradiated or autoclave options. www.Colder.com

LUERS

Luers are used on medical products as either male or female features and twist using a threaded format. The Luer is formatted for a smaller fluid path with 1/8" and 1/4" tubing adapters. Luers are available for irradiated or autoclave options. www.valueplastics.com

SANITARY TRI-CLOVERS

The Sanitary Tri-Clover is used in traditional interfaces with stainless systems. The components can be made in plastic and provided applied to tube sets and bag systems. The Sanitary Tri-Clover is available in 3/4" and 1 1/2" sizes and can be applied to tubes ranging from 1/8" to 1". Available on tube sets for autoclaved applications or received on irradiated sterile tube sets and bag systems.

CAPSULE FILTERS

When attached to irradiated tubing sets & bag systems, a capsule filter provides sterile fluid transfer into pre-irradiated bags or systems. This eliminating the need to autoclave, clean or sterilize traditional stainless systems. The fluid, when transferred through the capsule into the sterile bag, is sterile, even when processed in a non-sterile environment. ASI can source any filter and apply it to the bag or tube set of your preference.

ASEPTIC CONNECTORS

Attached to irradiated tube sets and bag systems, aseptic connectors allow the closed system connection to tanks, bags, tube sets and a multitude of fluid path applications, all while maintaining fluid path sterility. There are many connector suppliers available. ASI's technical support team can assist you in choosing the supplier to best fit your process needs.

**PL-01026 / PL-01077
POLYETHYLENE (PE) BAGS**

ASI's PE single-use bags are designed for bio-pharmaceutical, laboratory and diagnostic applications. They are made from high quality, Class VI and NAO film that present extremely low extractables and have a complete testing package, validation protocol and NAO status.

ASI's single-use systems eliminate the requirement of steam sterilization, eliminate the concern of cross contamination, as well as greatly reduce the turnover time between batches.

PL-01026 / PL-01077
**Polyethylene (PE)
 Single-Use Bags**

ASI's Polyethylene single-use bag systems are produced utilizing two films. The fluid contact film is a 5.0 mil Polyethylene (PL-01026). The outer is a 5 layer, 7 mil coextrusion film, which provides a barrier and durability (PL-01077).



PL-01077



PL-01026



Fluid contact surface

BIOCOMPATIBILITY

USP Acute Systemic Injection Test	Pass	USP <88>
USP Intracutaneous Injection Test	Pass	USP <88>
USP Intramuscular Implantation Test	Pass	USP <88>
USP MEM Elution Method	Non-Cytotoxic	USP <87>
Physiochemical Test for Plastics	Pass	USP <661>

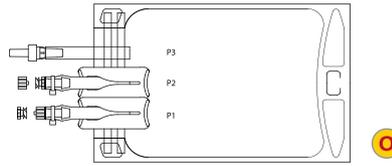
PHYSICAL DATA

Water Vapor Transmission Rate (g/100in ² /24hrs)	0.017	ASTM F-1249
Carbon Dioxide Transmission Rate (cc/100in ² /24hrs)	0.129	ASTM F-2476
Oxygen Transmission Rate (cc/100in ² /24hrs)	0.043	ASTM F-1927

	Average Force	Average MOE	Average Elongation	
Tensile	32.73 lbs	25110 psi	1080%	ASTM D 882-02
	Min Force	Average Force	Max Force	
Tear Resistance	6.77 lbs	7.21 lbs	7.74 lbs	ASTM D1004-07
Puncture Resistance	16.42 lbs	18.61 lbs	19.51 lbs	FTMS 101C

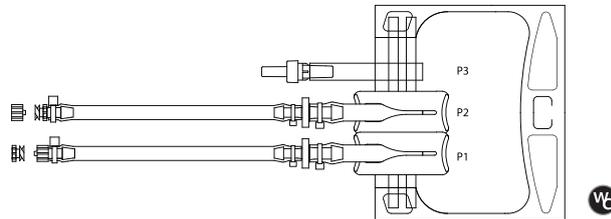
This Film is Class VI, Non-Animal Origin (NAO) and is supported by a Complete Testing / Documentation Package. For a complete Validation Package, contact an ASI representative at 800-724-4158.

- Port 1: LL Male + Cap, Slide Clamp
- Port 2: LL Female + Cap, Slide Clamp
- Port 3: Injection Site



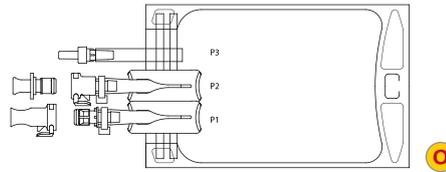
ASI Catalog #	Size
SS00024-I	100 mL
SS00025-I	250 mL
SS00026-I	500 mL
SS00027-I	1 Liter

- Port 1: 1/8" D x 1/4" OD Clear C-Flex 374 (12")
LL Male + Cap, Slide Clamp
- Port 2: 1/8" D x 1/4" OD Clear C-Flex 374 (12")
LL Female + Cap, Slide Clamp
- Port 3: Injection Site



ASI Catalog #	Size
SS00029-I	100 mL
SS00030-I	250 mL
SS00031-I	500 mL
SS00032-I	1 Liter

- Port 1: MPC Male + Cap, Slide Clamp
- Port 2: MPC Female + Cap, Slide Clamp
- Port 3: Injection Site



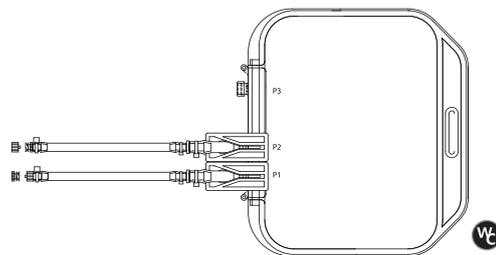
ASI Catalog #	Size
SS00034-I	100 mL
SS00035-I	250 mL
SS00036-I	500 mL
SS00037-I	1 Liter

- Port 1: LL Male + Cap, Slide Clamp
- Port 2: LL Female + Cap, Slide Clamp
- Port 3: Injection Site



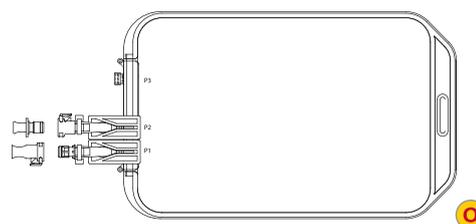
ASI Catalog #	Size
SS00028-I	2 Liter

- Port 1: 1/8" D x 1/4" OD Clear C-Flex 374 (12")
LL Male + Cap, Slide Clamp
- Port 2: 1/8" D x 1/4" OD Clear C-Flex 374 (12")
LL Female + Cap, Slide Clamp
- Port 3: Injection Site



ASI Catalog #	Size
SS00033-I	2 Liter

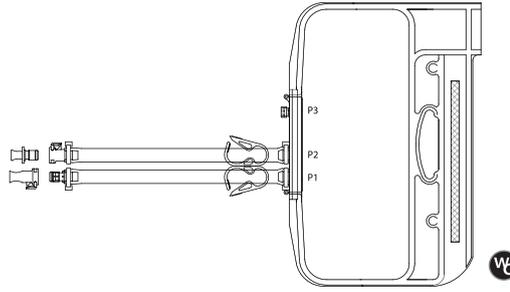
- Port 1: MPC Male + Cap, Slide Clamp
- Port 2: MPC Female + Cap, Slide Clamp
- Port 3: Injection Site



ASI Catalog #	Size
SS00038-I	2 Liter

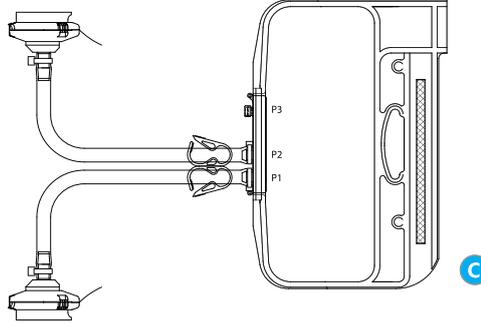
PL-01026 / PL-01077 POLYETHYLENE (PE) BAGS

- Port 1: 3/8" ID x 5/8" OD Clear C-Flex 374 (12")
MPC Male + Cap, Pinch Clamp
- Port 2: 3/8" ID x 5/8" OD Clear C-Flex 374 (12")
MPC Female + Cap, Pinch Clamp
- Port 3: Injection Site



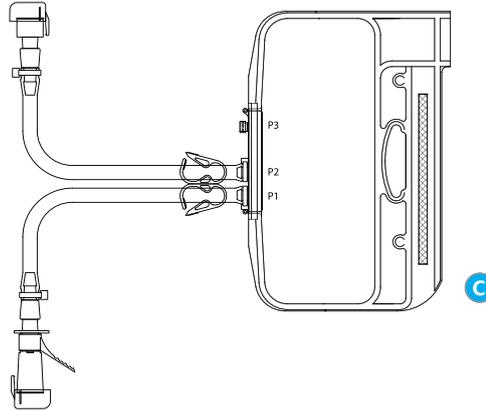
ASI Catalog #	Size	Tank #
SS00039-I	5 Liter	TK-0005
SS00040-I	10 Liter	TK-0010
SS00041-I	20 Liter	TK-0020

- Port 1: 3/8" ID x 5/8" OD Clear C-Flex,
Ready Mate / Clamp
- Port 2: 3/8" D x 3/8" OD Clear C-Flex,
Ready Mate / Clamp
- Port 3: Injection Site



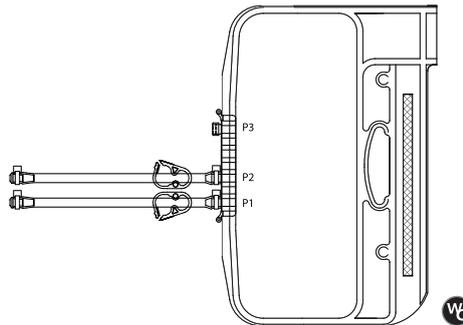
ASI Catalog #	Size	Tank #
SS00106-I	5 Liter	TK-0005
SS00107-I	10 Liter	TK-0010
SS00108-I	20 Liter	TK-0020

- Port 1: 3/8" ID x 5/8" OD Clear
C-Flex, Male Kleenpak / Clamp
- Port 2: 3/8" ID x 5/8" OD Clear
C-Flex, Female Kleenpak / Clamp
- Port 3: Injection Site



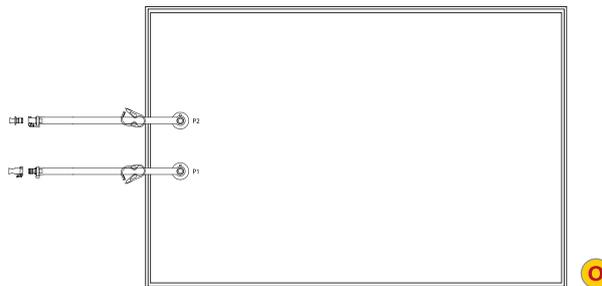
ASI Catalog #	Size	Tank #
SS00112-I	5 Liter	TK-0005
SS00113-I	10 Liter	TK-0010
SS00114-I	20 Liter	TK-0020

- Port 1: 1/4" D x 3/8" OD Clear C-Flex,
Plug / Pinch Clamp
- Port 2: 1/4" D x 3/8" OD Clear C-Flex,
Plug / Pinch Clamp
- Port 3: Injection Site



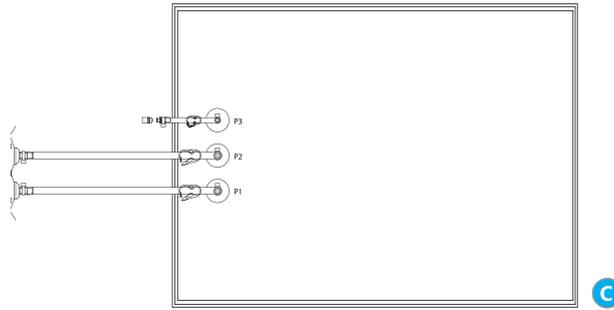
ASI Catalog #	Size	Tank #
SS00118-I	5 Liter	TK-0005
SS00119-I	10 Liter	TK-0010
SS00120-I	20 Liter	TK-0020

- Port 1: 3/8" ID x 5/8" OD Silicone
Tubing (20") MPC Male +
Cap, Pinch Clamp
- Port 2: 3/8" ID x 5/8" OD Silicone
Tubing (20") MPC Female +
Cap, Pinch Clamp



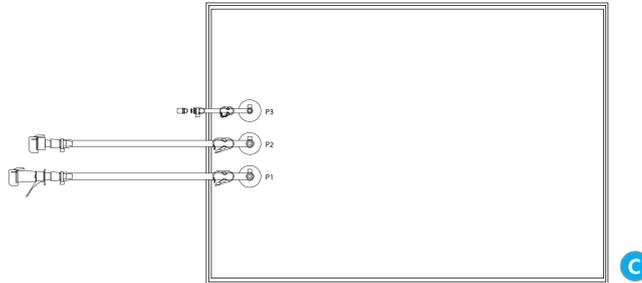
ASI Catalog #	Size	Tank #
SS00103-I	50 Liter	TK-0050-05
SS00104-I	100 Liter	TK-0100-05
SS00105-I	200 Liter	TK-0200-05

- Port 1: 3/8" ID x 5/8" OD Clear C-Flex, Ready Mate / Clamp
- Port 2: 3/8" D x 3/8" OD Clear C-Flex, Ready Mate / Clamp
- Port 3: Injection Site



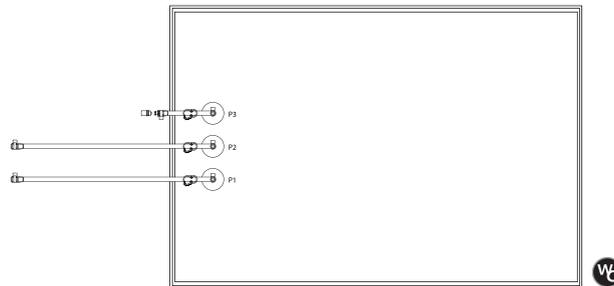
ASI Catalog #	Size	Tank #
SS00109-I	50 Liter	TK-0050-05
SS00110-I	100 Liter	TK-0100-05
SS00111-I	200 Liter	TK-0200-05

- Port 1: 3/8" ID x 5/8" OD Clear C-Flex, Male Kleenpak / Clamp
- Port 2: 3/8" ID x 5/8" OD Clear C-Flex, Female Kleenpak / Clamp
- Port 3: Injection Site



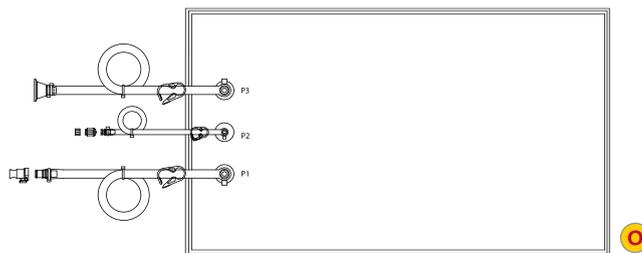
ASI Catalog #	Size	Tank #
SS00115-I	50 Liter	TK-0050-05
SS00116-I	100 Liter	TK-0100-05
SS00117-I	200 Liter	TK-0200-05

- Port 1: 1/4" D x 3/8" OD Clear C-Flex, Plug / Pinch Clamp
- Port 2: 1/4" D x 3/8" OD Clear C-Flex, Plug / Pinch Clamp
- Port 3: Injection Site



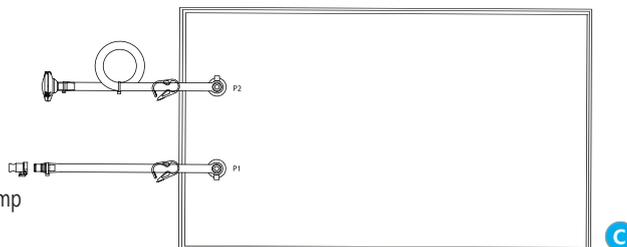
ASI Catalog #	Size	Tank #
SS00121-I	50 Liter	TK-0050-05
SS00122-I	100 Liter	TK-0100-05
SS00123-I	200 Liter	TK-0200-05

- Port 1: 1/2" ID x 3/4" OD Clear C-Flex 374 (60") MPX Male + Cap, Pinch Clamp
- Port 2: 1/8" ID x 1/4" OD Clear C-Flex 374 (40") Female Luer + Swabable Valve + Cap, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Clear C-Flex 374 (60") 1-1/2" Ladish Tri-Clover, Pinch Clamp



ASI Catalog #	Size	Tank #
SS00152-I	50 Liter	TK-0050-05
SS00153-I	100 Liter	TK-0100-05
SS00154-I	200 Liter	TK-0200-05

- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20") MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (36") ReadyMate DAC with 1/2" Barb, Pinch Clamp



ASI Catalog #	Size	Tank #
SS00155-I	50 Liter	TK-0050-05
SS00156-I	100 Liter	TK-0100-05
SS00157-I	200 Liter	TK-0200-05

0.2 μm STERILIZING CAPSULE FILTER

ASI offers MDI 0.2 μm sterilizing grade filters on standard bag sizes from 1 Liter to 200 Liter 2-Dimensional bags. ASI can produce any size and any type of bag upon request. ASI can also supply any filter and any size upon request.



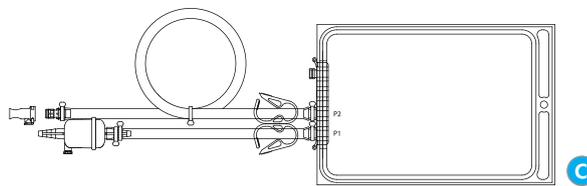
0.2 µm Sterilizing Capsule Filter

ASI offers MDI 0.2 µm sterilizing grade filters on standard bag sizes from 1 Liter to 200 Liter 2-D bags.

ASI can produce any size and any type of bag upon request. ASI can also supply any filter and any size upon request.

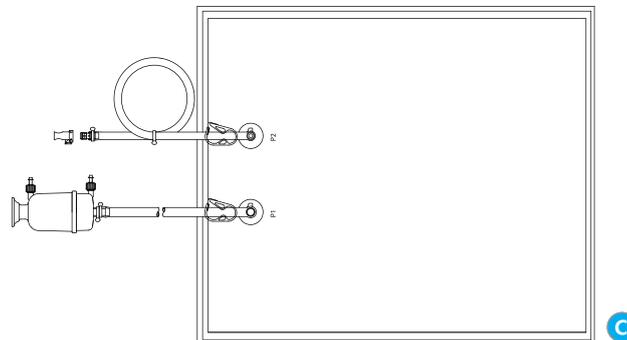


- Port 1: 3/8" ID x 5/8" OD C-Flex 374
Tubing (12") Pinch Clamp, 0.2µm
PES Membrane Capsule Filter
- Port 2: 3/8" ID x 5/8" OD C-Flex 374
Tubing (36") Pinch Clamp,
MPC Male + Cap
- Port 3: Injection Site



ASI Catalog #	Size	Tank #
SS00158-I	1 Liter	N/A
SS00159-I	5 Liter	TK-0005
SS00160-I	10 Liter	TK-0010
SS00161-I	20 Liter	TK-0020

- Port 1: 1/2" ID x 3/4" OD C-Flex 374 Tubing
(36") Pinch Clamp, 0.2µm PES
Membrane Capsule Filter
- Port 2: 3/8" ID x 5/8" OD C-Flex 374 Tubing
(36") Pinch Clamp, MPC Male + Cap



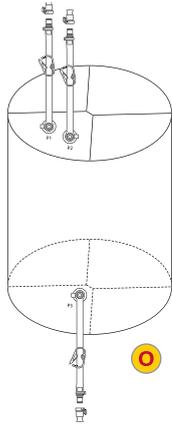
ASI Catalog #	Size	Tank #
SS00162-I	50 Liter	TK-0050-05
SS00163-I	100 Liter	TK-0100-05
SS00164-I	200 Liter	TK-0200-05

PL-01026 / PL-01077

POLYETHYLENE 3-DIMENSIONAL BAGS

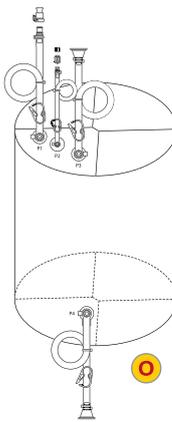
ASI's 3-D single-use bags have been specifically designed for larger scale applications. 3-D bags are beneficial to larger scale applications because their designs and shapes conform to vessels better and present fewer creases than traditional 2-D bags. They are made from high quality film that carries a complete testing package, as well as Non-Animal Origin status. These systems are provided completely packaged and sterile, ready for immediate use.





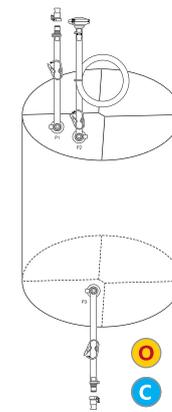
- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00046-I	50 Liter	TK-0050
SS00047-I	100 Liter	TK-0100
SS00048-I	200 Liter	TK-0200
SS00049-I	500 Liter	TK-0500



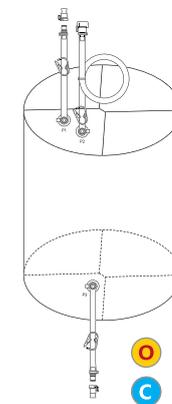
- Port 1: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/8" ID x 1/4" OD Clear C-Flex 374 (40")
Female Luer + Swabable Valve + Cap, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
1-1/2" Ladish Tri-Clover, Pinch Clamp
- Port 4: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
1-1/2" Ladish Tri-Clover, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00050-I	50 Liter	TK-0050
SS00051-I	100 Liter	TK-0100
SS00052-I	200 Liter	TK-0200
SS00053-I	500 Liter	TK-0500



- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (36")
ReadyMate DAC w/ 1/2" Barb, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

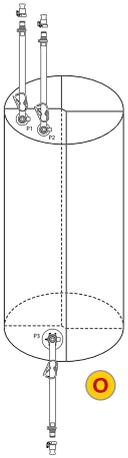
ASI Catalog #	Size	Tank #
SS00054-I	50 Liter	TK-0050
SS00055-I	100 Liter	TK-0100
SS00056-I	200 Liter	TK-0200
SS00057-I	500 Liter	TK-0500



- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (36")
Female Kleenpak Connector with 1/2" Barb, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

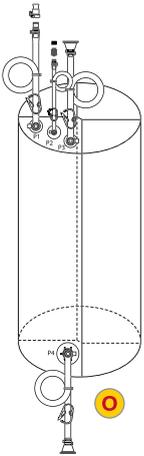
ASI Catalog #	Size	Tank #
SS00058-I	50 Liter	TK-0050
SS00059-I	100 Liter	TK-0100
SS00060-I	200 Liter	TK-0200
SS00061-I	500 Liter	TK-0500

PL-01026 / PL-01077 POLYETHYLENE 3-D BAGS



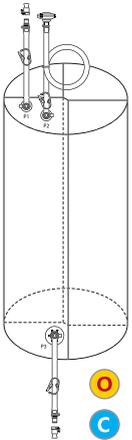
- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00124-I	50 Liter	TK-0050-06
SS00125-I	100 Liter	TK-0100-06
SS00126-I	200 Liter	TK-0200-06
SS00127-I	500 Liter	TK-0500-06



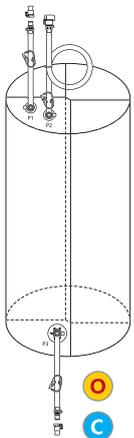
- Port 1: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/8" ID x 1/4" OD Clear C-Flex 374 (40")
Female Luer + Swabable Valve + Cap, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
1-1/2" Ladish Tri-Clover, Pinch Clamp
- Port 4: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
1-1/2" Ladish Tri-Clover, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00128-I	50 Liter	TK-0050-06
SS00129-I	100 Liter	TK-0100-06
SS00130-I	200 Liter	TK-0200-06
SS00131-I	500 Liter	TK-0500-06



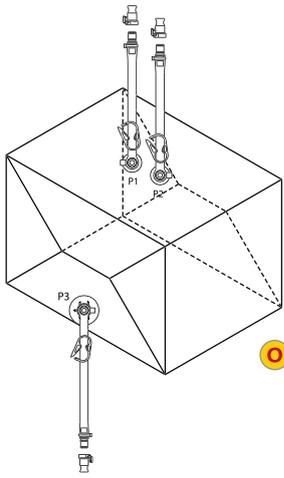
- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (36")
ReadyMate DAC with 1/2" Barb, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00132-I	50 Liter	TK-0050-06
SS00133-I	100 Liter	TK-0100-06
SS00134-I	200 Liter	TK-0200-06
SS00135-I	500 Liter	TK-0500-06



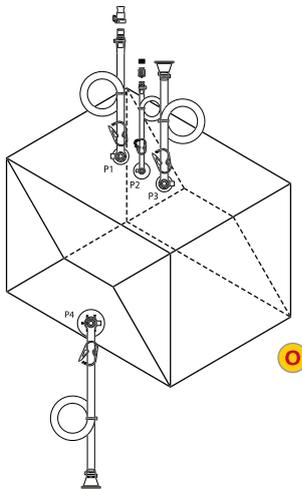
- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (36")
Female Kleenpak Connector with 1/2" Barb, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00136-I	50 Liter	TK-0050-06
SS00137-I	100 Liter	TK-0100-06
SS00138-I	200 Liter	TK-0200-06
SS00139-I	500 Liter	TK-0500-06



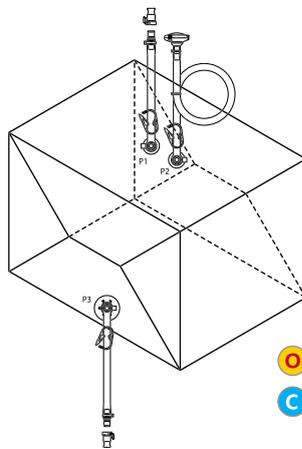
- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00140-I	200 Liter	TK-0250-08
SS00141-I	500 Liter	TK-0500-08
SS00142-I	1000 Liter	TK-1000-08



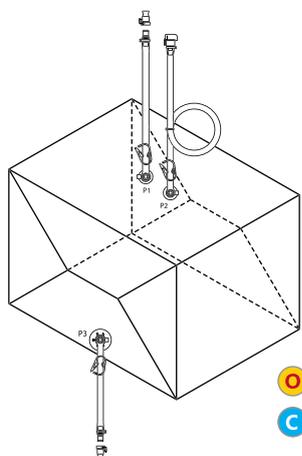
- Port 1: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/8" ID x 1/4" OD Clear C-Flex 374 (40")
Female Luer + Swabable Valve + Cap, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
1-1/2" Ladish Tri-Clover, Pinch Clamp
- Port 4: 1/2" ID x 3/4" OD Clear C-Flex 374 (60")
1-1/2" Ladish Tri-Clover, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00143-I	200 Liter	TK-0250-08
SS00144-I	500 Liter	TK-0500-08
SS00145-I	1000 Liter	TK-1000-08



- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (36")
ReadyMate DAC with 1/2" Barb, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00146-I	200 Liter	TK-0250-08
SS00147-I	500 Liter	TK-0500-08
SS00148-I	1000 Liter	TK-1000-08



- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (36")
Female Kleenpak Connector with 1/2" Barb, Pinch Clamp
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (20")
MPX Male + Cap, Pinch Clamp

ASI Catalog #	Size	Tank #
SS00149-I	200 Liter	TK-0250-08
SS00150-I	500 Liter	TK-0500-08
SS00151-I	1000 Liter	TK-1000-08

PL-01026
Tank Liner

ASI's single-use tank liners are manufactured in an ISO Class 7 environment, packaged clean, 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.



PL-01026 Tank Liner

ASI's single-use tank liners are manufactured in an ISO Class 7 environment, packaged clean, 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.

- 2-D (pillow) liners are available as a simple and low cost solution. A single bag will accommodate a variety of tank sizes.
- 3-D liners are available and are sized for specific totes. This seamless design offers a more streamlined fit, eliminating pooling areas or "pleats".

ASI's single-use tank liners are designed to complement Nalgene, Saint-Gobain and Cole-Parmer tanks.

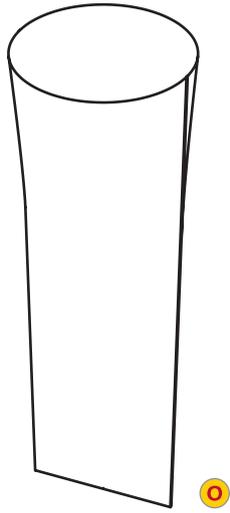


BIOCOMPATIBILITY

USP Acute Systemic Injection Test	Pass	USP <88>
USP Intracutaneous Injection Test	Pass	USP <88>
USP Intramuscular Implantation Test	Pass	USP <88>
USP MEM Elution Method	Non-Cytotoxic	USP <87>
Physiochemical Test for Plastics	Pass	USP <661>

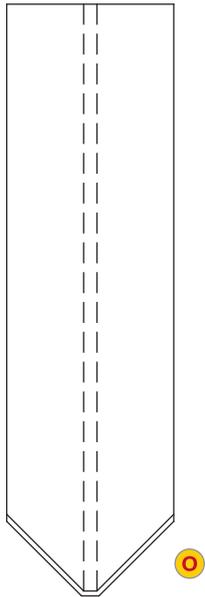
	Average MOE	Average Elongation	
Tensile	5756 psi	710%	ASTM D 882
	Average Force		
Impact Strength	2.52 lbs	7.74 lbs	ASTM D 1709





2-D PILLOW STYLE TANK LINERS

ASI Catalog #	Size	Diameter	Depth
B100048-I	50 Liter	13"	27"
B100038-I	130 Liter	18"	30"
B100037-I	200 Liter	22"	36"
B100049-I	340 Liter	24"	48"
B100050-I	400 Liter	28"	44"
B100051-I	560 Liter	31"	49"
B100052-I	790 Liter	36"	51"
B100053-I	1090 Liter	42"	49"
B100054-I	1360 Liter	48"	49"



3-D TANK LINERS

ASI Catalog #	Size	Diameter	Depth
B100364-I	50 Liter	13"	27"
B100373-I	100 Liter	18"	30"
B100363-I	200 Liter	22"	36"
B101459-I	300 Liter	24"	48"
B101460-I	560 Liter	31"	49"
B101461-I	750 Liter	36"	51"
B101462-I	1000 Liter	42"	49"



2-D STYLE 3-D STYLE

ASI Tank Liner #	ASI Tank Liner #	Nalgene Tank #	Cole-Parmer #	Saint-Gobain #
B100048-I	B100364-I	11100-0015	EW-06317-65	11100-0015
B100038-I	B100373-I	11100-0030	EW-06317-70	11100-0030
B100037-I	B100363-I	11100-0055	EW-06317-75	11100-0055
B100049-I	B101459-I	11100-0080	EW-06317-80	11100-0080
B100050-I	-	11100-0100	EW-06317-10	11100-0100
B100051-I	B101460-I	11100-0150	EW-06317-20	11100-0150
B100052-I	B101461-I	11100-0200	EW-06317-31	11100-0200
B100053-I	B101462-I	-	EW-06317-41	11100-0275
B100054-I	-	-	EW-06317-85	11100-0360

PL-01077 POLYETHYLENE (PE) BAGS

ASI's PE single-use bags are designed for bio-pharmaceutical, laboratory and diagnostic applications. They are made from high quality, Class VI and NAO film that present extremely low extractables and have a complete testing package, validation protocol and NAO status.

ASI's single-use systems eliminate the requirement of steam sterilization, eliminate the concern of cross contamination, as well as greatly reduce the turnover time between batches.



PL-01077

**Polyethylene (PE)
Single-Use Bags**

PL-01077 is a 5 layer, 7 mil coextrusion film, which provides a barrier and durability.



PL-01077



Fluid contact surface →

BIOCOMPATIBILITY

USP Acute Systemic Injection Test	Pass	USP <88>
USP Intracutaneous Injection Test	Pass	USP <88>
USP Intramuscular Implantation Test	Pass	USP <88>
USP MEM Elution Method	Non-Cytotoxic	USP <87>
Physiochemical Test for Plastics	Pass	USP <661>

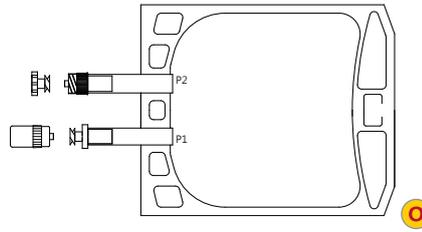
PHYSICAL DATA

Water Vapor Transmission Rate (g/100in ² /24hrs)	0.044	ASTM F-1249
Carbon Dioxide Transmission Rate (cc/100in ² /24hrs)	0.145	ASTM F-2476
Oxygen Transmission Rate (cc/100in ² /24hrs)	0.278	ASTM F-1927

	Average Force	Average MOE	Average Elongation	
Tensile	30.79 lbs	51670 psi	611%	ASTM D 882-02
	Min Force	Average Force	Max Force	
Tear Resistance	4.86 lbs	5.20 lbs	5.45 lbs	ASTM D1004-07
Puncture Resistance	13.89 lbs	15.29 lbs	17.12 lbs	FTMS 101C

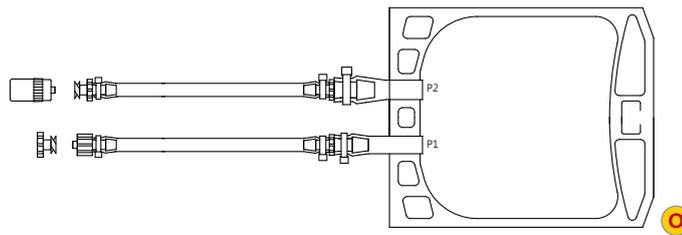
This Film is Class VI, Non-Animal Origin (NAO) and is supported by a Complete Testing / Documentation Package. For a complete Validation Package, contact an ASI representative at 800-724-4158.

- Port 1: LL Female +
Cap with Injection Site
- Port 2: LL Male + Cap



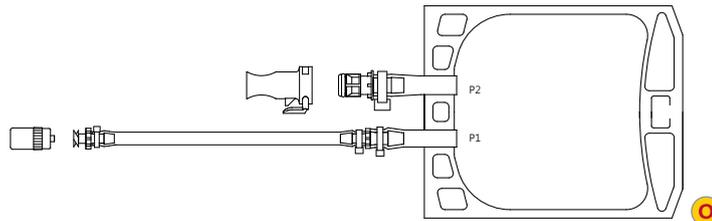
ASI Catalog #	Size
SS00087-I	50 mL
SS00088-I	100 mL
SS00089-I	250 mL
SS00090-I	500 mL
SS00091-I	1 Liter

- Port 1: 1/8" D x 1/4" OD Clear
C-Flex 374 (12") LL Male + Cap
- Port 2: 1/8" D x 1/4" OD Clear
C-Flex 374 (12") LL Female
+ Cap with Injection Site



ASI Catalog #	Size
SS00092-I	50 mL
SS00093-I	100 mL
SS00094-I	250 mL
SS00095-I	500 mL
SS00096-I	1 Liter

- Port 1: 1/8" D x 1/4" OD Clear
C-Flex 374 (12") LL Female
+ Cap with Injection Site
- Port 2: MPC Male + Cap



ASI Catalog #	Size
SS00097-I	50 mL
SS00098-I	100 mL
SS00099-I	250 mL
SS00100-I	500 mL
SS00101-I	1 Liter

PL-01028
ETHYL VINYL ACETATE (EVA) BAGS

ASI's EVA single-use bags are designed for bio-pharmaceutical, laboratory and diagnostic applications. They are made from high quality, Class VI and NAO film that present extremely low extractables and have a complete testing package, validation protocol and NAO status.

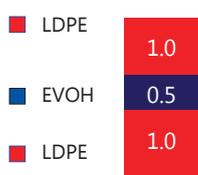
ASI's single-use systems eliminate the requirement of steam sterilization, eliminate the concern of cross contamination, as well as greatly reduce the turnover time between batches.

PL-01028 Ethyl Vinyl Acetate (EVA) Single-Use Bags

ASI's Ethyl Vinyl Acetate (EVA) single-use bag systems are produced utilizing a single film. The film is a 4 layer, 12.5 mil coextrusion film, which provides a barrier and durability.



PL-01028



Fluid contact surface

BIOCOMPATIBILITY

USP Acute Systemic Injection Test	Pass	USP <88>
USP Intracutaneous Injection Test	Pass	USP <88>
USP Intramuscular Implant Test	Pass	USP <88>
USP MEM Elution Method	Non-Cytotoxic	USP <87>
Hemolysis	Non-Hemolytic	ISO 10993-4
ISO 10993 Acute Systemic Injection Test	Pass	ISO 10993-11
ISO 10993 Intracutaneous Injection Test	Pass	ISO 10993-10
ISO 10993 Intramuscular Implant Test	Pass	ISO 10993-6

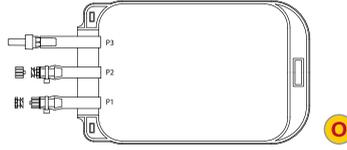
PHYSICAL DATA

Carbon Dioxide Transmission Rate (cc/100in ² /24hrs)	0.58	Mocon Test Method
Water Vapor Transmission Rate (g/100in ² /24hrs)	0.11	ASTM F-1249
Oxygen Transmission Rate (cc/100in ² /24hrs)	0.28	ASTM F-3985
Ultimate Tensile	3100 psi	ASTM D-638
Ultimate Elongation	> 650%	ASTM D-638
100% Modulus	1000psi	ASTM D-638
Tear Strength	550 lbs/in	ASTM D-1004
Low Pressure Brittleness	> -75° F	ASTM D-1790
Puncture Resistance	22.4 lbs	FTMS 101 B

This film is Class VI, non-animal origin, and is supported by a complete testing/documentation package. For a complete Validation Package, contact an ASI representative at 800-724-4158.

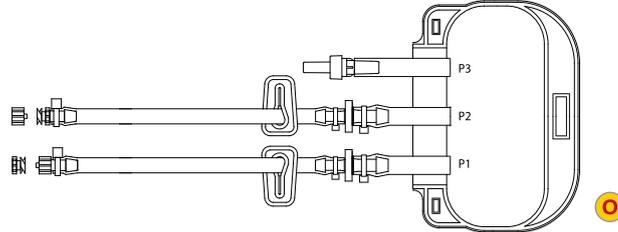
PL-01028 ETHYL VINYL ACETATE (EVA) BAGS

- Port 1: LL Male + Cap
- Port 2: LL Female + Cap
- Port 3: Injection Site



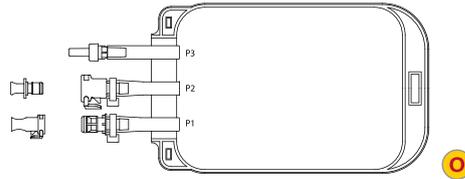
ASI Catalog #	Size
SS00001-I	100 mL
SS00002-I	250 mL
SS00003-I	500 mL
SS00004-I	1 Liter

- Port 1: 1/8" X 1/4" Clear C-Flex 374 (12")
LL Male + Cap, Slide Clamp
- Port 2: 1/8" X 1/4" Clear C-Flex 374 (12")
LL Female + Cap, Slide Clamp
- Port 3: Injection Site



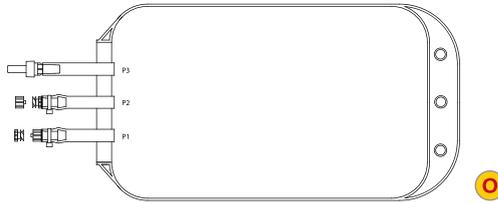
ASI Catalog #	Size
SS00006-I	100 mL
SS00007-I	250 mL
SS00008-I	500 mL
SS00009-I	1 Liter

- Port 1: MPC Male + Cap
- Port 2: MPC Female + Cap
- Port 3: Injection Site



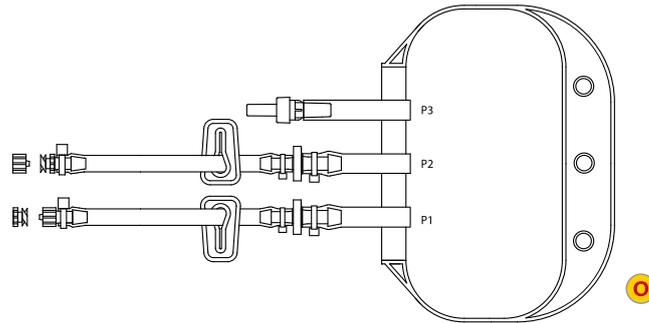
ASI Catalog #	Size
SS00011-I	100 mL
SS00012-I	250 mL
SS00013-I	500 mL
SS00014-I	1 Liter

- Port 1: LL Male + Cap
- Port 2: LL Female + Cap
- Port 3: Injection Site



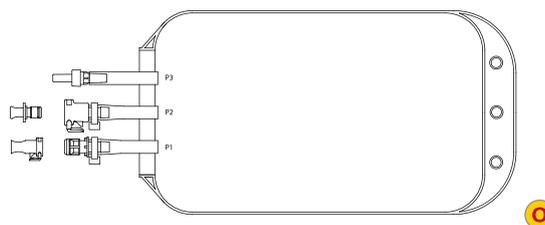
ASI Catalog #	Size
SS00005-I	2 Liter

- Port 1: 1/8" X 1/4" Clear C-Flex 374 (12")
LL Male + Cap, Slide Clamp
- Port 2: 1/8" X 1/4" Clear C-Flex 374 (12")
LL Female + Cap, Slide Clamp
- Port 3: Injection Site



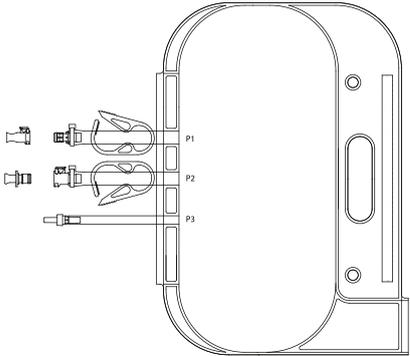
ASI Catalog #	Size
SS00010-I	2 Liter

- Port 1: MPC Male + Cap
- Port 2: MPC Female + Cap
- Port 3: Injection Site



ASI Catalog #	Size
SS00015-I	2 Liter

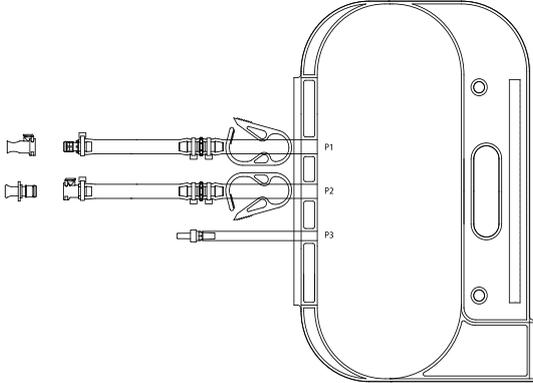
- Port 1: MPC Male + Cap, Pinch Clamp
- Port 2: MPC Female + Cap, Pinch Clamp
- Port 3: Injection Site



ASI Catalog #	Size	Tank#
SS00016-I	5 Liter	TK-0005
SS00017-I	10 Liter	TK-0010
SS00018-I	20 Liter	TK-0020



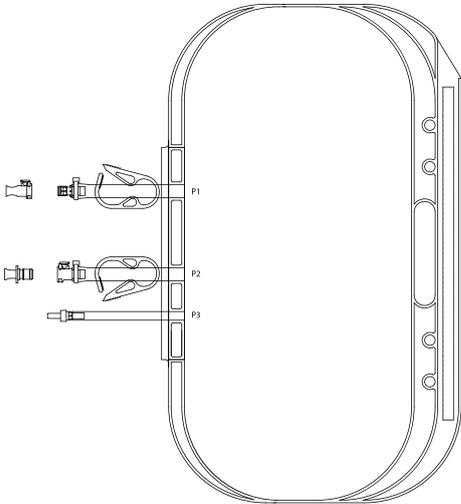
- Port 1: 3/8" ID X 5/8" OD Clear C-Flex 374 (12")
MPC Male + Cap, Pinch Clamp
- Port 2: 3/8" ID X 5/8" OD Clear C-Flex 374 (12")
MPC Female + Cap, Pinch Clamp
- Port 3: Injection Site



ASI Catalog #	Size	Tank #
SS00020-I	5 Liter	TK-0005
SS00021-I	10 Liter	TK-0010
SS00022-I	20 Liter	TK-0020



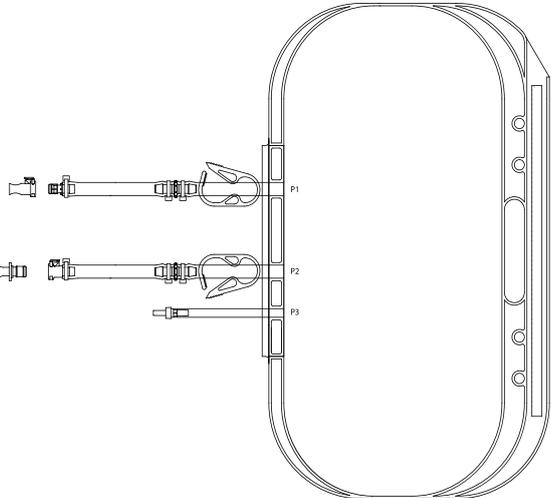
- Port 1: MPC Male + Cap, Pinch Clamp
- Port 2: MPC Female + Cap, Pinch Clamp
- Port 3: Injection Site



ASI Catalog #	Size	Tank#
SS00019-I	50 Liter	N/A



- Port 1: 3/8" ID X 5/8" OD Clear C-Flex 374 (12")
MPC Male + Cap, Pinch Clamp
- Port 2: 3/8" ID X 5/8" OD Clear C-Flex 374 (12")
MPC Female + Cap, Pinch Clamp
- Port 3: Injection Site



ASI Catalog #	Size	Tank #
SS00023-I	50 Liter	N/A



TRANSFER ASSEMBLIES

ASI offers over 80 different tubing sizes and types, as well as over 900 off-the-shelf connectors. Component options include single-use steam valves, aseptic connections, manifolds and filter assemblies. ASI also offers custom assemblies at an aggressive price and lead-time through our direct purchasing access to the industry's major component suppliers.

The sets ease the transfer of bulk fluids from one container to another. Single-use transfer assemblies eliminate the requirement of steam sterilization, the concern of cross contamination, as well as greatly reduce the turnover time and labor between batches.

Tubing types include, but are not limited to:

- ***Silicone***
- ***C-Flex***
- ***Phar-Med BPT***

ASI manufactures specialized transfer / purification tubing assemblies using the highest quality Class VI and NAO tubing. After design, assembly and packaging have been completed, ASI will manage the sterilization of the single-use system. The tube sets can be supplied non-sterile or irradiation sterile, which provides an additional value of a shelf life of two years.



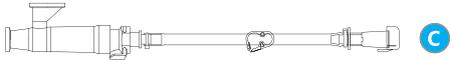
Tubing: Silicone Tubing (36") with Pinch Clamp
 T1: Steam-Thru II Connector 3/4" x 1 1/2" Sanitary x 1/2" Barb
 T2: ReadyMate DAC with 1/2" Barb

ASI Catalog #	ID x OD	Material
SS00042-I	1/2" x 3/4"	Silicone Tube Set



Tubing: Silicone Tubing (36") with Pinch Clamp
 T1: Steam-Thru II Connector 3/4" x 1 1/2" Sanitary x 1/2" Barb
 T2: Male Kleenpak Connector with 1/2" Barb

ASI Catalog #	ID x OD	Material
SS00043-I	1/2" x 3/4"	Silicone Tube Set



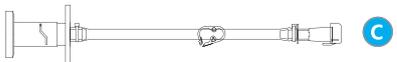
Tubing: Silicone Tubing (36") with Pinch Clamp
 T1: Lynx ST Connector 1 1/2" Sanitary x 1/2" Barb
 T2: ReadyMate DAC with 1/2" Barb

ASI Catalog #	ID x OD	Material
SS00044-I	1/2" x 3/4"	Silicone Tube Set



Tubing: Silicone Tubing (36") with Pinch Clamp
 T1: Lynx ST Connector 1 1/2" Sanitary x 1/2" Barb
 T2: Male Kleenpak Connector with 1/2" Barb

ASI Catalog #	ID x OD	Material
SS00045-I	1/2" x 3/4"	Silicone Tube Set



Tubing: Silicone Tubing (36") with Pinch Clamp
 T1: 1 1/2" Sanitary x 1/2" Barb with Gasket, End Cap, and Push / Pull Clip
 T2: MPX Female + Cap

ASI Catalog #	ID x OD	Material
SS00062-I	1/2" x 3/4"	Silicone Tube Set



Tubing: Silicone Tubing (36") with Pinch Clamp
 T1: 3/4" Sanitary x 1/2" Barb with Gasket, End Cap, and Push / Pull Clip
 T2: MPX Female + Cap

ASI Catalog #	ID x OD	Material
SS00063-I	1/2" x 3/4"	Silicone Tube Set



Tubing: Silicone Tubing (36") with Pinch Clamp
 T1: 1 1/2" Sanitary x 3/8" Barb with Gasket, End Cap, and Push / Pull Clip
 T2: MPC Male + Cap

ASI Catalog #	ID x OD	Material
SS00064-I	3/8" x 5/8"	Silicone Tube Set



Tubing: Silicone Tubing (36") with Pinch Clamp
 T1: 3/4" Sanitary x 3/8" Barb with Gasket, End Cap, and Push / Pull Clip
 T2: MPC Male + Cap

ASI Catalog #	ID x OD	Material
SS00065-I	3/8" x 5/8"	Silicone Tube Set



IMPULSE SINGLE-USE MIXING SYSTEM





impULSE from ASI is a single-use mixing system that allows you to mix powder / liquid or liquid / liquid solutions with turnkey simplicity. ASI offers product and process customer support from design to validation.

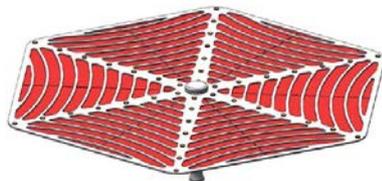
The disc technology is an integrated part of the disposable bag. The shape is engineered with multiple slots and film flaps. Tests have shown this to completely mix through flow measurements at various locations in the mix bag.

The disc is scalable to the size of the unit as the disc or mix plate itself is symmetrically scaled to the size of the tank. This assures consistent mixing across all sizes.

Go to www.asisus.com to watch all videos



Upstroke



Downstroke



CONTROL PANEL

- Relay Control Logic with Manual Push Button and Selector Switch Interface
- Hardwired Interlocks
- Power Supply and Circuit Breakers
- Panel Mounted Digital Speed Indicator
- Electrical and Controls Enclosure with Local Disconnect

OPTIONS

- Jacket and Insulation
- Split Tank Design
- Weight Control System (Load Cells)
- Auto Inflate and Vent Control
- 6-Channel Data Logger with Display
- Disposable Process Monitoring
- Conventional Process Monitoring
- PLC
- Peristaltic Pump and Controller Assembly
- Powder Bag Lifting System
- Stationary Powder Bag Hanger
- Seismic Restraint Design

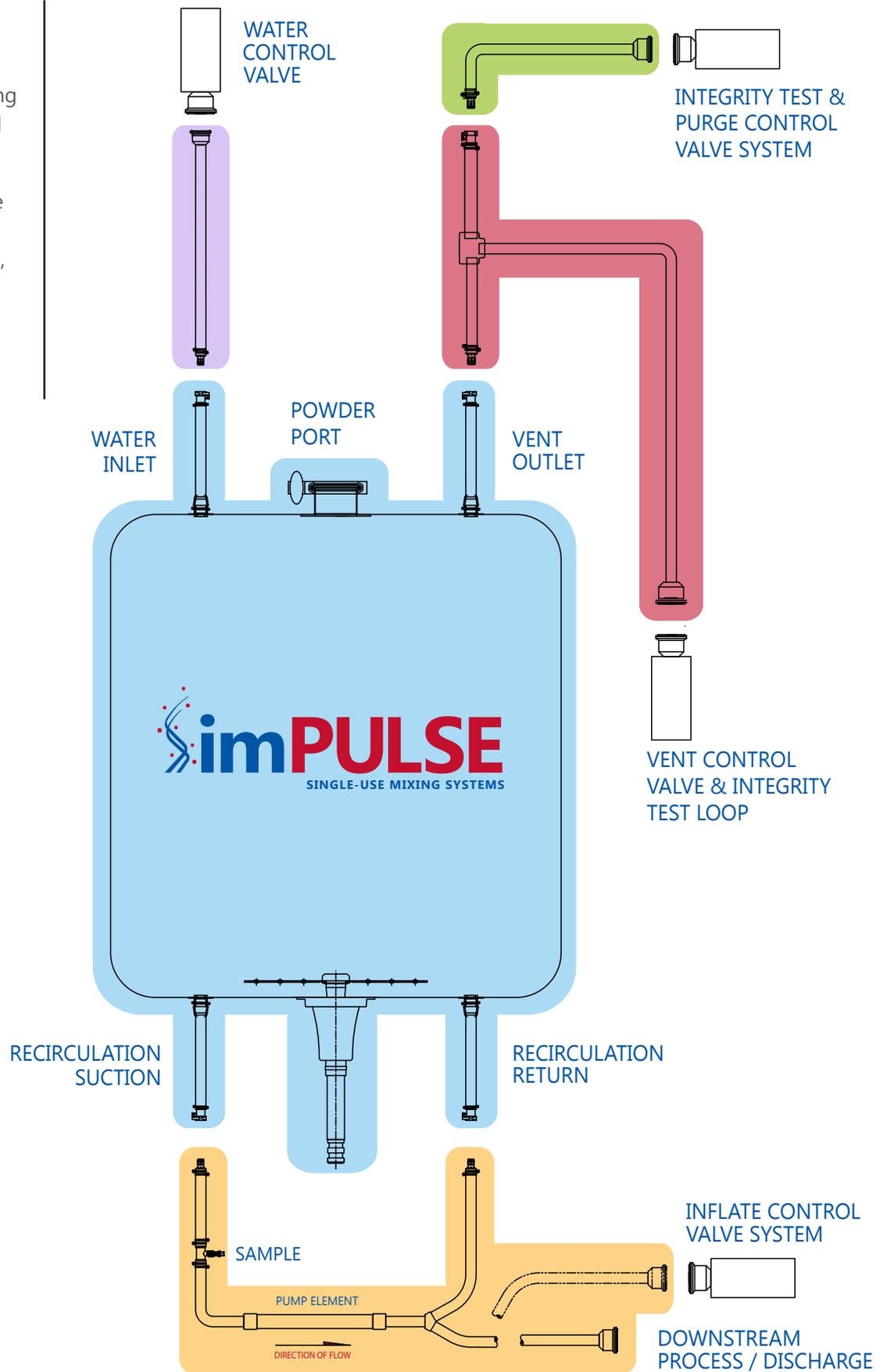
IMPULSE MIXING BAG COMPONENTS

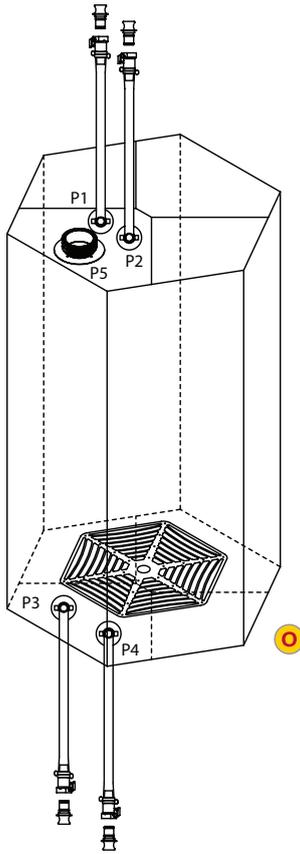
imPULSE MIXING BAG COMPONENTS

ASI offers a standard imPULSE Mixing Bag with four inlet / outlet lines and powder addition port.

In addition, ASI offers standard tube sets to connect imPULSE Mixing Bag for liquid addition, recirculation, inflation and vent control.

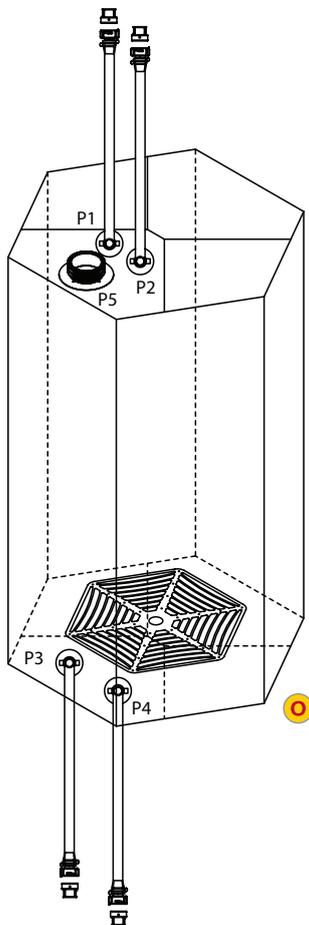
The tube sets are modular and can be customized to best suit your process.





- Port 1: 1/2" ID x 3/4" OD Silicone Tubing (12")
MPX Female + Cap
- Port 2: 1/2" ID x 3/4" OD Silicone Tubing (12")
MPX Female + Cap
- Port 3: 1/2" ID x 3/4" OD Silicone Tubing (12")
MPX Female + Cap
- Port 4: 1/2" ID x 3/4" OD Silicone Tubing (12")
MPX Female + Cap
- Port 5: 3" Tri-Clover Powder Port w/ Gasket, End Cap, and Clamp

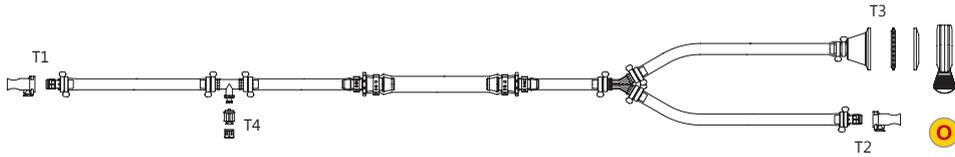
ASI Catalog #	Description
HM00013-I	30 Liters
HM00001-I	100 Liters
HM00007-I	250 Liters
HM00014-I	500 Liters
HM00002-I	750 Liters



- Port 1: 3/4" ID x 1 1/8" OD Silicone Tubing (12")
MPU Female + Cap
- Port 2: 3/4" ID x 1 1/8" OD Silicone Tubing (12")
MPU Female + Cap
- Port 3: 3/4" ID x 1 1/8" OD Silicone Tubing (12")
MPU Female + Cap
- Port 4: 3/4" ID x 1 1/8" OD Silicone Tubing (12")
MPU Female + Cap
- Port 5: 3" Tri-Clover Powder Port w/ Gasket, End Cap, and Clamp

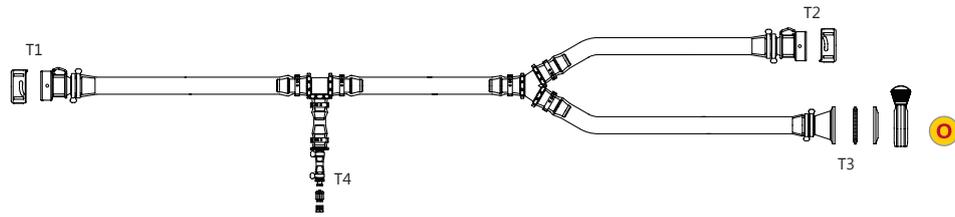
ASI Catalog #	Description
HM00022-I	1,000 Liters
HM00021-I	1,500 Liters
HM00009-I	2,000 Liters
HM00003-I	3,000 Liters

IMPULSE MIXING BAG COMPONENTS



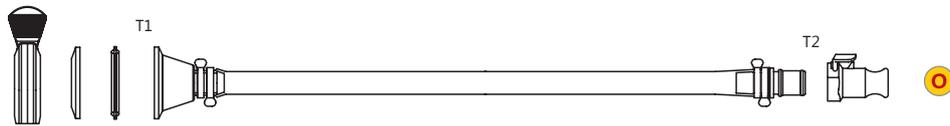
ASI Catalog #	Description
HM00005-I	1/2" Recirculation Tube Set

- Tubing: 1/2" ID x 3/4" OD Silicone Tubing with Size 90 Pharmed BPT Pump Tubing
 T1-T2: MPX Male + Cap
 T3: 1 1/2" Sanitary x 1/2" Barb with Gasket, End Cap, and Push / Pull Clip
 T4: Swabable Sample Port



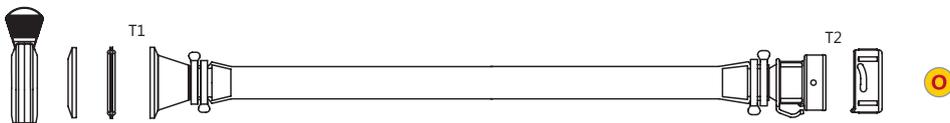
ASI Catalog #	Description
HM00006-I	3/4" Recirculation Tube Set

- Tubing: 3/4" ID x 1 1/8" OD Silicone Tubing with Size 90 Pharmed BPT Pump Tubing
 T1-T2: MPU Male + Cap
 T3: 1 1/2" Sanitary x 3/4" Barb with Gasket, End Cap, and Push / Pull Clip
 T4: Swabable Sample Port



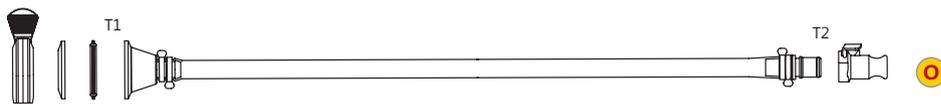
ASI Catalog #	Description
HM00015-I	1/2" Water Fill Tube Set

- Tubing: 1/2" ID x 3/4" OD Silicone Tubing (72")
 T1: 1 1/2" Sanitary x 1/2" Barb with Gasket, End Cap, and Push / Pull Clip
 T2: MPX Male + Cap



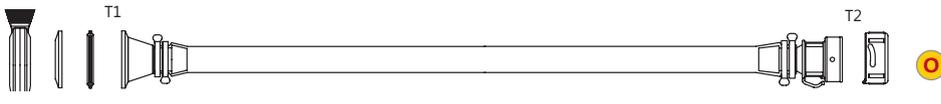
ASI Catalog #	Description
HM00016-I	3/4" Water Fill Tube Set

- Tubing: 3/4" ID x 1 1/8" OD Silicone Tubing (72")
 T1: 1 1/2" Sanitary x 3/4" Barb with Gasket, End Cap, and Push / Pull Clip
 T2: MPU Male + Cap



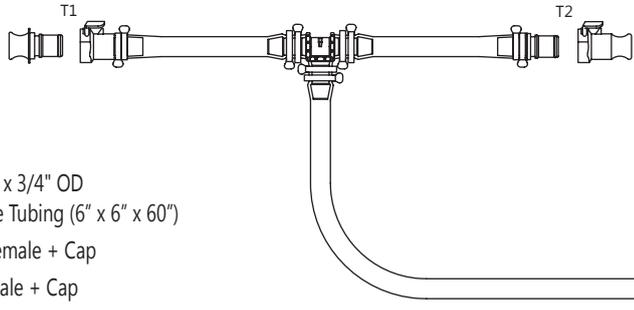
ASI Catalog #	Description
HM00017-I	1/2" Air Inflation & Purge

Tubing: 1/2" ID x 3/4" OD Silicone Tubing (144")
 T1: 1 1/2" Sanitary x 1/2" Barb with Gasket, End Cap, and Push / Pull Clip
 T2: MPX Male + Cap



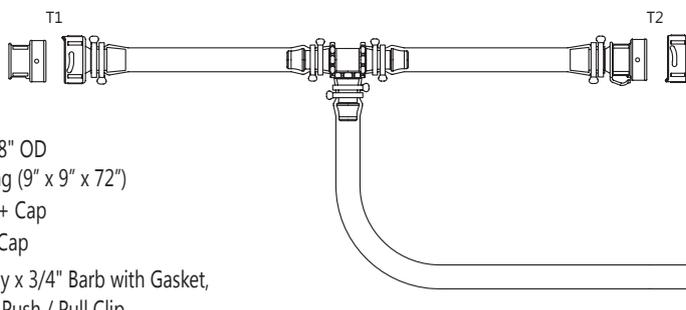
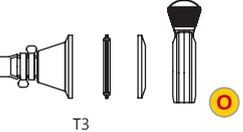
ASI Catalog #	Description
HM00018-I	3/4" Air Inflation & Purge

Tubing: 3/4" ID x 1 1/8" OD Silicone Tubing (156")
 T1: 1 1/2" Sanitary x 3/4" Barb with Gasket, End Cap, and Push / Pull Clip
 T2: MPU Male + Cap



ASI Catalog #	Description
HM00019-I	1/2" Vent Line

Tubing: 1/2" ID x 3/4" OD Silicone Tubing (6" x 6" x 60")
 T1: MPX Female + Cap
 T2: MPX Male + Cap
 T3: 1 1/2" Sanitary x 1/2" Barb with Gasket, End Cap, and Push / Pull Clip



ASI Catalog #	Description
HM00020-I	3/4" Vent Line

Tubing: 3/4" ID x 1 1/8" OD Silicone Tubing (9" x 9" x 72")
 T1: MPU Female + Cap
 T2: MPU Male + Cap
 T3: 1 1/2" Sanitary x 3/4" Barb with Gasket, End Cap, and Push / Pull Clip



INSITE INFLATION AND INTEGRITY TEST SYSTEM





Confidence at the Point-of-Use

Gross & Fine Leak Integrity Testing

As the value of processes increase with each step downstream, so too, does the importance of sterility and leak detection. inSITE from ASI applies the confidence of a final integrity test prior to use; at the point of use. The test eliminates the concern for gross and fine leaks that could occur from handling and loading procedures.

Loading and Filling with Ease

Bag loading and placement is another valuable step prior to filling. The inSITE system will inflate to a specified pressure so placement in the tank is accurate and errors which can result from pinching and creasing are limited.

ASI's Patent-Pending product is used on any container up to 3,000 Liters in size. inSITE is completely mobile through clean room grade wheels and a light-weight design.

The Point-Of-Use Feature of inSITE will apply to bags in any tank size. The maximum size of a bag to be used in conjunction with inSITE is 3,000 Liters. Any tank can be used. The fine leak detection process requires a specific validation for each container.



*inSITE Inflation & Integrity Test System from ASI is Patent Pending

Advantages:

- Point-of-Use Integrity Testing
- Validation Results are Stored for Repeated Tests in Each Unique Container
- Gross and Fine Leak Detection
- Tests Single-Use Bags up to 3,000 Liters in Size
- Inflation Procedure Improves Loading and Placement in Tanks
- On-Board Printer to Document Test Results
- On Board Bar Code Scanner

INFUSE FILLING SYSTEM



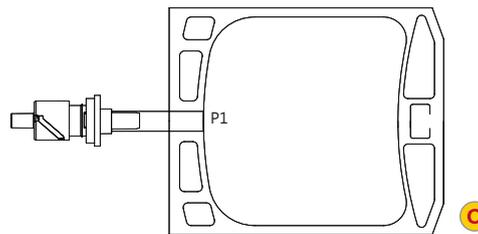


ASI's inFUSE Filling System, when used in conjunction with good technique and a laminar flow hood, yields an aseptic bag fill. The inFUSE system utilizes a fixture and cap assembly developed and manufactured by ASI and fully controls the filling interface with no user interaction required with the fill port. What is left after completion is a tamper evident dispensing port. This results in a cleaner, more efficient and cost effective method of filling.

ASI Catalog #	Description
4MP6000	Manual Filling System
4MP6001	Semi-Automatic Filling System
B100787-I	1 Liter Bag with Fill Connector (3,000 count)
N/A	Watson Marlow 620Di/L Peristaltic Pump
4MP6065	Ram Carriage Assembly



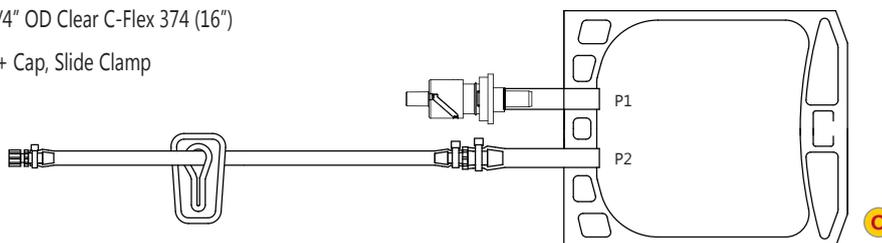
Port 1: Co-Ex Tube ASI Filling Connector



ASI Catalog #	Size
B100783-I	50 mL
B100784-I	100 mL
B100785-I	250 mL
B100786-I	500 mL
B100787-I	1 Liter

Port 1: Co-Ex Tube ASI Filling Connector

Port 2: 1/8" ID x 1/4" OD Clear C-Flex 374 (16")
LL Female + Cap, Slide Clamp



ASI Catalog #	Size
B100788-I	50 mL
B100789-I	100 mL
B100790-I	250 mL
B100791-I	500 mL
B100792-I	1 Liter

THREE 60 SAMPLING SYSTEM





three 60

SAMPLING SYSTEM: Simple and Secure

three 60 is a completely sanitary, single-use method of removing a sample from a tank bioreactor or stainless fluid path. The entire set (4 samples) can be applied to your fluid holding vessel or transfer line.



ASI also offers a complete line of small vessel sampling bags to complement this procedure. As well, the patented "Pinch and Cut" separation device eliminates the need for an expensive tube sealing machine.

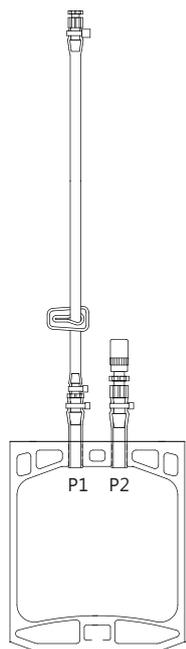
Another option is to utilize a tube welder allowing a sterile fuse to a tube applied to a source tank or system. A tube welder used in conjunction with the system provides another option for sterility.

Go to www.asius.com to watch all videos



SAMPLING

ASI Catalog #	Size
B100563-I	50 mL
B100564-I	100 mL
B100565-I	250 mL
B100566-I	500 mL
B100567-I	1000 mL

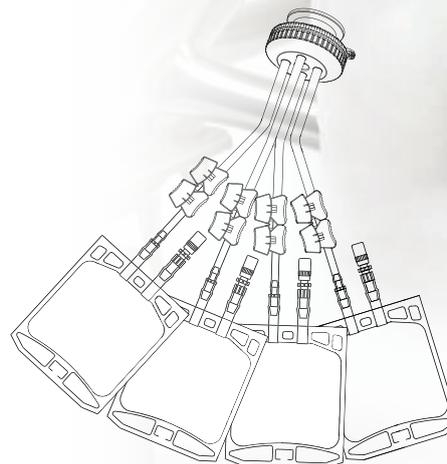


- Port 1: 1/8" X 1/4" Clear C-Flex 374 (18") LL Male + Cap, Slide Clamp
- Port 2: Injection Site



THREE 60

ASI Catalog #	Size
4MP0034	50 mL
4MP0035	100 mL
4MP0036	250 mL
4MP0037	500 mL
4MP0038	1 Liter
4MP0039	2 Liter





TUBE WELDERS FOR CLOSED SYSTEMS

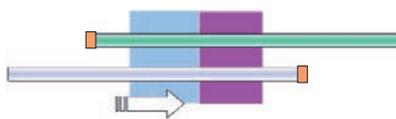


Tube welders allow for “Welded Closed System” sterile fluid path connections to be made when using single-use systems. The need for a laminar flow hood, filters, valves and connectors are not necessary when using a tube welder to make sterile fluid transfer. The process allows the connection of multiple fluid paths utilizing C-Flex or equivalent Thermo Plastic Elastomer (TPE) tubing. The welder is useful for connecting tubing between process containers and equipment and is designed to connect small or large diameter tubing enabling high flow rates and large transfer volumes. Typical applications for use are: small volume sampling or large bags for media, buffer fills, reactor or process transfer. The tubing is applied to bag systems and tube sets, irradiated sterile or autoclaved as applied to tanks and additional tubing assemblies. Tube ends are sealed or plugged.

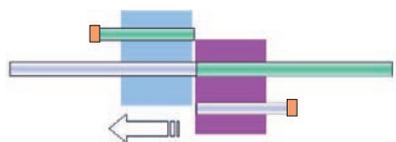
Go to www.asisus.com to watch all videos



TWO PLUGGED STERILE FLUID PATHS ARE INSERTED INTO CLAMPS



A HEATED, STERILE BLADE SLICES BOTH TUBES



SEGMENTS ARE SHIFTED AND RE-ALIGNED



BLADE IS REMOVED, FUSING BOTH TUBES TOGETHER. STERILE WELD CYCLE IS COMPLETE.

TERUMO WELDER

Tube Size: 1/8" ID x 1/4" OD

Bag Size: 100 mL
250 mL
500 mL
1 Liter
2 Liter

SAINT GOBAIN / STEDIM & WAVE WELDERS

Tube Size: 1/4" ID x 3/8" OD

Bag Size: 5 Liter
10 Liter
20 Liter
50 Liter
100 Liter
200 Liter



TANKS AND CONTAINERS

ASI offers complete fluid management systems, including the rigid container or tank used to house the single-use product. Tanks are available in a variety of shapes, sizes and configurations. Standard sizes are available from 5 Liters to 5,000 Liters.

Tanks are available in plastic, stainless-steel, collapsible and stackable.

Custom containers can be built to meet specialty sizes and features.

- Special sizes up to 5,000 Liters
- Port locations as needed and specified
- Jacketing for heating and cooling

PRODUCT OVERVIEW

COLLAPSIBLE / STACKABLE: STAINLESS-STEEL

This rectangular stainless-steel tank is robust for production or shipping. It stacks and fully collapses for consolidated empty storage. Bottom dunnage and discharge are also a feature.



COLLAPSIBLE / STACKABLE: PLASTIC

Low cost shipping or in-plant containment tank. Can be stacked full and collapsed for consolidated empty storage. Although it has a bottom discharge, there is no dunnage area. Can be received with dolly.



PRODUCTION

Ideal low cost internal production option. Allows for a bottom discharge and dunnage. Supports 3-D bags.



DRUMS AND PROTECTIVE CONTAINERS

Great, low cost option for in-house use, shipment and / or storage of product.



TANKS AND CONTAINERS

COLLAPSIBLE / STACKABLE: STAINLESS-STEEL TANKS

To store, process and ship bulk liquids in bioprocessing bags, this rectangular stainless-steel tank is a proven choice.

This tank is durable, easy to handle and clean, with the convenience of being fully collapsible for consolidated empty storage.

Bottom dunnage and discharge are also a feature.

100 / 200 LITER 500 LITER 1,000 LITER



	100 / 200 Liter	500 Liter	1,000 Liter
ASI CATALOG #	TK-0200-07	TK-0500-07	TK-1000-07
OUTSIDE DIMENSIONS (L) x (W) x (H)	815 x 620 x 885 mm	1,205 x 810 x 1,030 mm	1,200 x 1,010 x 1,290 mm
INSIDE DIMENSIONS (L) x (W) x (H)	720 x 520 x 605 mm	1,106 x 706 x 760 mm	1,120 x 920 x 1,040 mm
HEIGHT COLLAPSED	520 mm	540 mm	560 mm
VOLUME	100 / 200 Liter	500 Liter	1,000 Liter
WEIGHT (Empty)	90 kg	170 kg	220 kg
STACKABLE (Full)	3 x	2 x	1 x
STACKABLE (Empty)	4 x	4 x	2 x

STAINLESS-STEEL TROLLEY

This stainless-steel trolley will assist in movement of the tank. Comes complete with (2) two swivel castors and (2) two swivel castors with locks.

ASI CATALOG #	TK-200-07T (200 L)	TK-500-07T (500 L)	TK-1000-07T (1,000 L)
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**COLLAPSIBLE / STACKABLE:
PLASTIC TANKS**

These low cost shipping or in-house containment tanks can be stacked full or collapsed for consolidated empty storage. This tank is a reusable transport system for liquids, which is more cost effective.

Key Advantages:

- Reusable tank
- Transport costs are reduced
- Easy to clean and corrosion free
- Easy to fill, empty and transport
- Stackable and collapsible for optimal space utilization

250 LITER

500 LITER

1,000 LITER



	250 Liter	500 Liter	1,000 Liter
ASI CATALOG #	TK-0250-08	TK-0500-08	TK-1000-08
OUTSIDE DIMENSIONS (L) x (W) x (H)	809 x 609 x 833 mm	120 x 80 x 91 cm	120 x 100 x 125 cm
INSIDE DIMENSIONS (L) x (W) x (H)	740 x 540 x 660 mm	111 x 71 x 69 cm	111 x 91 x 103 cm
HEIGHT COLLAPSED	403 mm	43 cm	43 cm
USEFUL HEIGHT	660 mm	69 cm	103 cm
WEIGHT	20 kg	-	102 kg
VOLUME	250 Liter	500 Liter	1,000 Liter
LOADING CAPACITY	325 kg	650 kg	1300 kg
STATISTIC STACKABLE	1+5	1+5	1+5
DYNAMIC STACKABLE	2	2	2

PRODUCTION TANKS

When integrating single-use bags into manufacturing, open-topped tanks are needed. ASI offers these low-cost fluid management systems.

Key Advantages:

- Dunnage area to hold bottom discharge tubing
- 5" sealed casters for easy movement throughout the facility
- Plastic containment cylinder to reduce cost and weight
- Rigid and durable design to withstand cleaning for reuse



Available in 50 L, 100 L, 200 L & 500 L

Size	Tank #
50 Liter	TK-0050-06
100 Liter	TK-0100-06
200 Liter	TK-0200-06
500 Liter	TK-0500-06

PLASTIC DRUMS FOR PILLOW STYLE BAGS

The Plastic Drum is a low cost option to hold bags for in-house use or shipment of products. The drum is cylindrical with a flat bottom.

The drum is extrusion blow molded from High Molecular Weight, High Density Polyethylene (HMW-HDPE).

This drum comes complete with a side lever lockband lid.

50 LITER



100 LITER



200 LITER



	50 Liter	100 Liter	200 Liter
ASI CATALOG #	TK-0050-05	TK-0100-05	TK-0200-05
OPENING INSIDE DIMENSION	13.7 in	19.2 in	22.0 in
NOMINAL OUTER DIMENSION	14.9 in	21.3 in	23.8 in
OVERALL HEIGHT	26.3 in	30.1 in	38.8 in
NESTING HEIGHT	9.4 in	5.5 in	6.7 in
WEIGHT	8.2 lbs	15.9 lbs	22.2 lbs
VOLUME	50 Liter	100 Liter	200 Liter
BODY MATERIAL	Polyethylene	Polyethylene	Polyethylene
STACKABLE	1+2	1+2	1+2

SINGLE-USE PROTECTIVE CONTAINERS

ASI provides protective containers for single-use systems. Developed to assure integral packaging for shipment and general storage, the bag sizes fit perfectly into a coordinating container.

This container features an adjustable cap allowing ample room to accommodate custom tubing and port configurations. It can nest and stack for easy storage and the container is ribbed to improve integrity and support to protect your product.

5 LITER



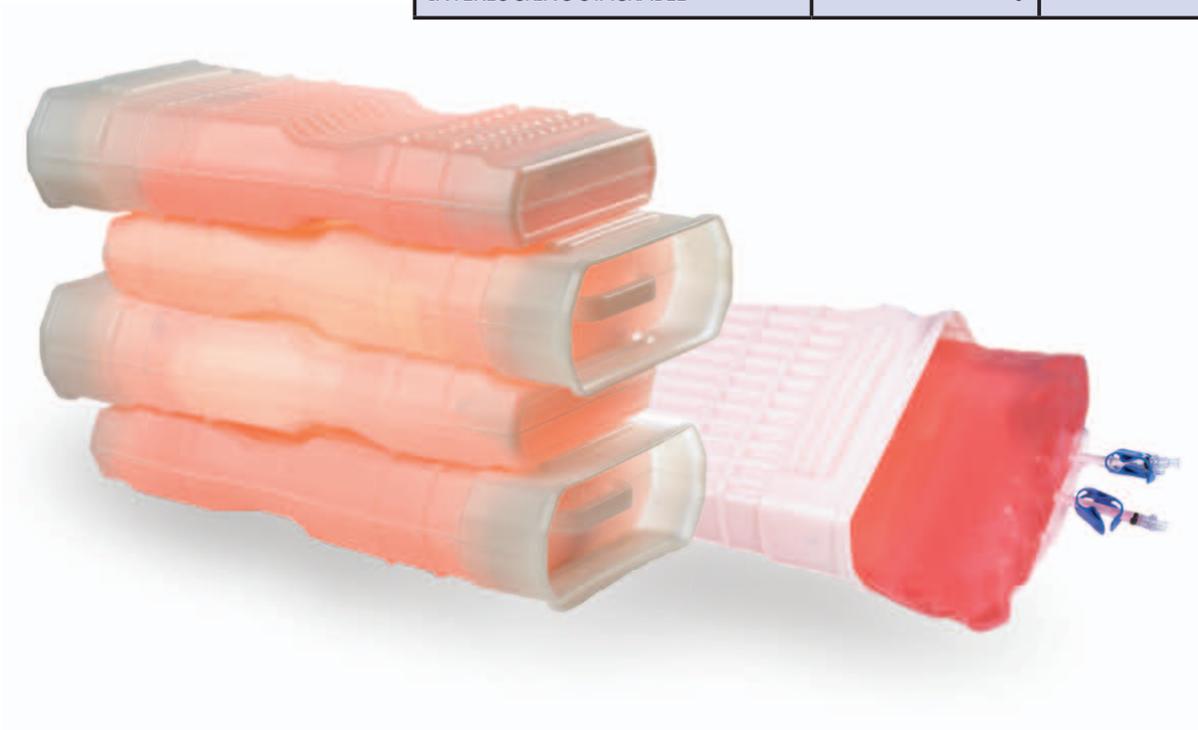
10 LITER



20 LITER



	5 Liter	10 Liter	20 Liter
ASI CATALOG #	TK-0005	TK-0010	TK-0020
OUTSIDE DIMENSIONS (L) x (W) x (H)	17.2 x 12 x 5.3 in	27.2 x 12 x 5.3 in	30.4 x 15.3 x 6.8 in
MATERIAL	Polyethylene	Polyethylene	Polyethylene
VOLUME	5 Liter	10 Liter	20 Liter
NESTING STACKABLE	1+5	1+5	1+5
INTERLOCKING STACKABLE	6	6	6



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