

Aramus™ Single-Use 2D Bag Assemblies

High-grade, gamma-stable fluoropolymer film providing higher purity and greater reliability

The utilization of single-use (SU) systems continues to grow, and so do the purity concerns of the SU components and their potential impact on high-value final products. From the high cost of product loss due to assembly failures at fill/finish, to the ever-increasing scrutiny from regulatory bodies, every angle requires protective measures.

Now, Entegris brings a new level of assurance to your process. With product design that incorporates the purity, integrity and performance standards of the microelectronics industry with the regulatory and quality requirements for life sciences, Entegris allows you to protect and store your high-value process solutions with reduced risk of product loss, contamination, or compromised quality and efficacy.

The Aramus™ single-use 2D bags are made of a high-grade, gamma-stable fluoropolymer, providing higher purity, greater compatibility, and increased safety for critical process fluids and final products. With an innovative single-layer technology that does not contain curing agents, antioxidants, plasticizers, or adhesives, the number of potential contaminants is greatly reduced. These subassemblies withstand the widest operating temperature range (-85° to 40°C [-121° to 104°F] or lower), without negatively affecting the film, making them extremely durable in frozen applications.



Additionally, the fluoropolymer film offers universal material compatibility, reducing the risk of material and assembly failure. Aramus single-use assemblies are manufactured in an ISO® Class 5 cleanroom using methodologies that go beyond the standard. These assemblies allow for easier validation and provide high purity, performance, quality, and safety for your process.

APPLICATIONS

- Frozen product storage and shipment
- Stem cell freezing and storage
- Critical buffer and media storage
- Downstream bioprocessing
- Final fill
- Process sampling and archiving

FEATURES & BENEFITS

Widest temperature operating range	<p>More durable in frozen applications including cryogenics, whereas current solutions will not withstand those conditions.</p> <p>Maintains mechanical properties across a wide range of process temperatures.</p> <p>Reduces bag breakage and can be used in cold temperature applications to -85°C (-121°F) or lower without negative affect to bag or boat.</p>
Fluoropolymer construction	<p>Outperforms other polymers by providing universal chemical compatibility.</p> <p>Reduces the risk of material failure – no delamination.</p> <p>Increases the number of applications in which the product can be used.</p> <p>Reduces risk of bag failure and can be used with a wider range of process chemicals without negative affect to the material or product.</p>
Gamma-stable fluoropolymer film	<p>Withstands market-standard gamma sterilization, providing lower bioburden.</p>
Single-layer technology	<p>Reduces the number of potential contaminants introduced to final product (because no adhesives, binders, etc.).</p> <p>Does not delaminate, increasing product life.</p> <p>Does not contain additives, which results in an extremely low extractable profile.</p> <p>Reduces cell growth inhibition.</p> <p>Single material for film and boat.</p>
High-purity fluoropolymer materials	<p>Reduces contamination of final product.</p> <p>The nature of the fluoropolymer used makes it more durable in frozen applications.</p> <p>Improved process yield and higher security of frozen drug product.</p> <p>Reduces risk of bag failure or breakage; reduces product loss.</p> <p>Low adsorption rate.</p>
Manufactured in an ISO Class 5 certified cleanroom	<p>Has low particulates, low bioburden, and low endotoxin, which increases purity.</p>
Multiple connectivity options	<p>Provides greater flexibility when incorporating into an already validated process.</p> <p>Eliminates the need for process requalification, speeding time to market.</p>

SPECIFICATIONS

	50 mL	100 mL	250 mL	500 mL	1 L	2 L	5 L	10 L	20 L
Length	120 mm (4.7")	160 mm (6.3")	240 mm (9.4")	210 mm (8.3")	285 mm (11.2")	354 mm (13.9")	470 mm (18.5")	570 mm (22.4")	718 mm (28.3")
Width	100 mm (3.9")	100 mm (3.9")	100 mm (3.9")	158 mm (6.2")	178 mm (7.0")	254 mm (10")	323 mm (12.7")	383 mm (15.1")	483 mm (19.0")
Sterilization	Gamma irradiation								

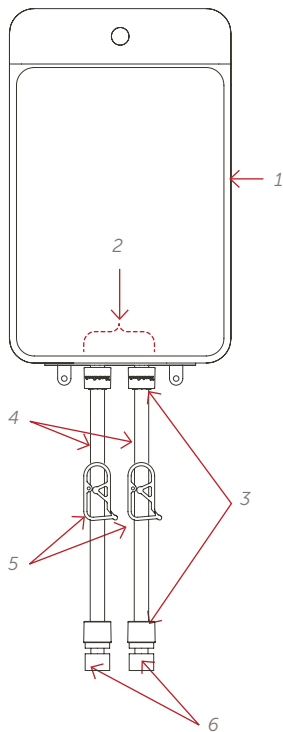
Note: Bag body dimensions listed. Width tolerance up to +4 mm on each side.

Compliance

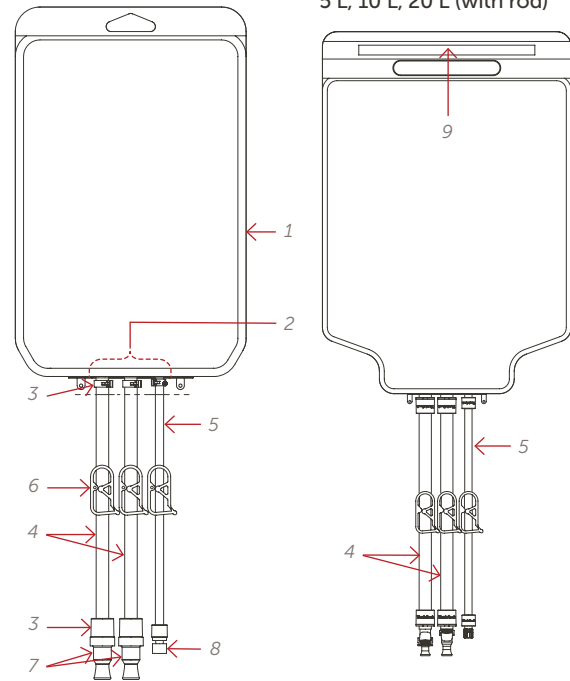
Biological	USP <87>	Pass
	USP <88>	Pass
	USP Class VI	Pass
	USP <85> and EP 2.6.14	<0.125 EU/mL
	ISO 10993-4	Non-hemolytic
Particulates	USP <788> and EP 2.9.19	Pass
Extractables	USP <661>	Pass
Animal origin	TSE/BSE	Compliant

CONFIGURATIONS

Full Aramus Assembly
Configuration Options
2-port: 50 mL, 100 mL, 250 mL



Full Aramus Assembly
Configuration Options
3-port: 500 mL, 1 L



Full Aramus Assembly
Configuration Options
3-port: 2 L (no rod),
5 L, 10 L, 20 L (with rod)

ITEM	DESCRIPTION
1	Aramus fluoropolymer film with slot for hanging
2	Fluoropolymer "boat" fitment with 2 hose barb ports
3	Tubing connection (BarbLock® or Oetiker Stepless® clamp)
4	Tubing 1/8" ID x 1/4" OD (AdvantaFlex® or AdvantaSil®)
5	Pinch clamps
6	Tubing fittings 1/8" ID (Luer male/female with plugs)

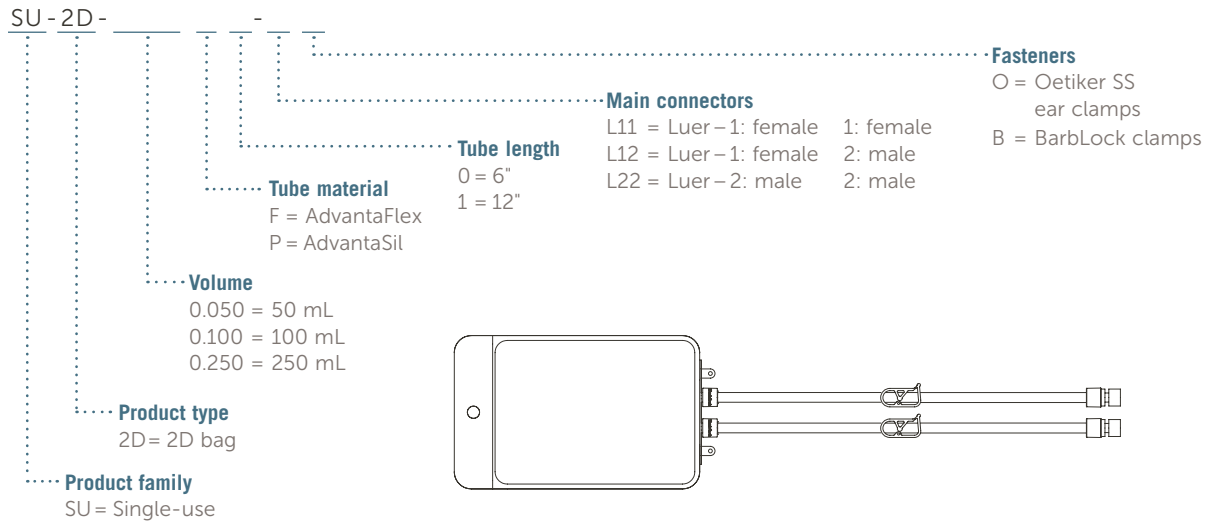
Note: See Ordering Information for the standard part numbers available; customization available upon request.

ITEM	DESCRIPTION
1	Aramus fluoropolymer film with slot for hanging
2	Fluoropolymer "boat" fitment with 3 hose barb ports
3	Tubing connection (BarbLock® or Oetiker Stepless® clamp)
4	Tubing for 500 mL, 1 L, and 2 L is 1/4" ID x 3/8" OD Tubing for 5 L, 10 L, and 20 L is 3/8" ID x 5/8" OD (Tygon® or C-Flex® 374)
5	Tubing for 500 mL, 1 L, and 2 L is 1/8" ID x 1/4" OD Tubing for 5 L, 10 L, and 20 L is 1/4" ID x 3/8" OD (Tygon or C-Flex 374)
6	Pinch clamps
7	Tubing fittings (CPC MPC male/female with plugs)
8	Tubing fittings (Luer male/female with plugs)
9	Rod (5L, 10 L, 20 L)

Note: See Ordering Information for the standard part numbers available; customization available upon request.

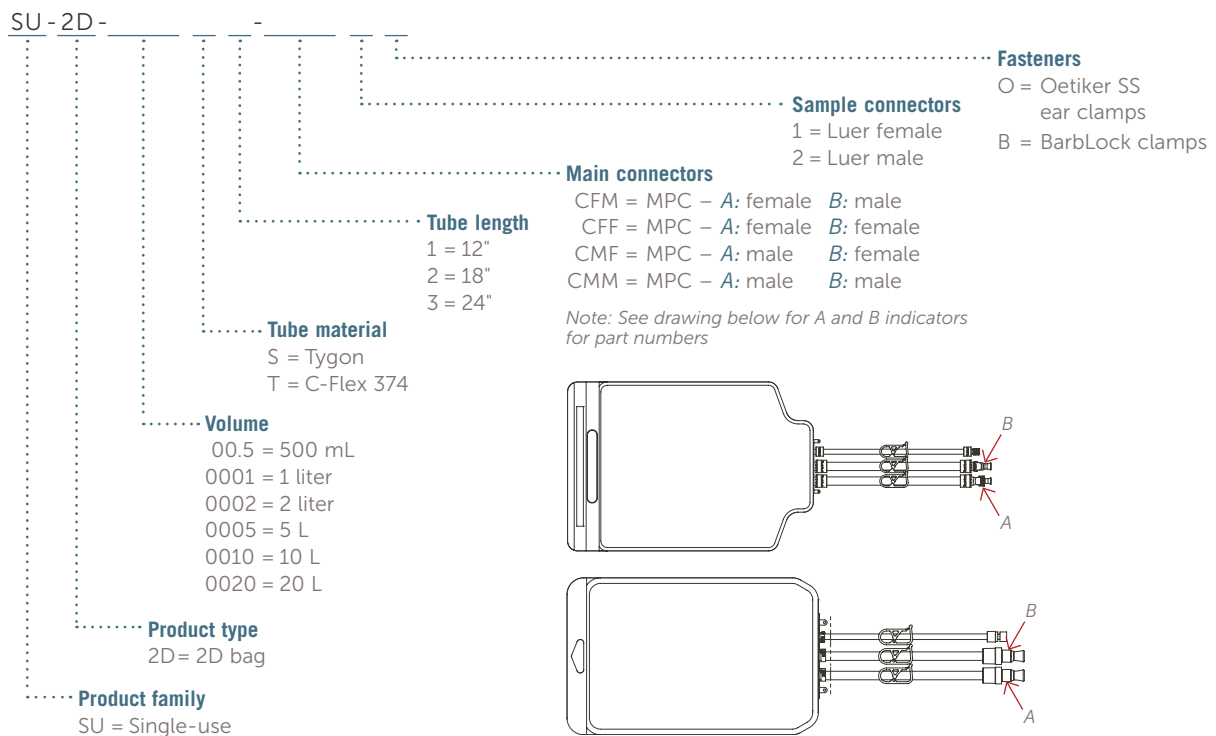
ORDERING INFORMATION

Aramus Assemblies (2-port): part number



Notes: Assemblies sold sterilized. Assembly temperature performance is component-dependent. Assemblies are individually double-bagged.

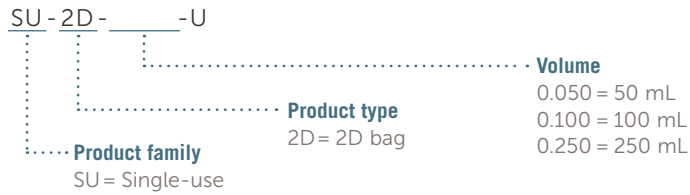
Aramus Assemblies (3-port): part number



Notes: Assemblies sold sterilized. Assembly temperature performance is component-dependent. Assemblies are individually double-bagged.

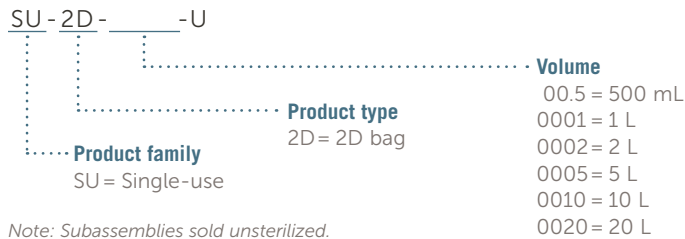
ORDERING INFORMATION (CONTINUED)

Aramus Subassemblies (2-port): part number



Note: Subassemblies sold unsterilized.

Aramus Subassemblies (3-port): part number



Note: Subassemblies sold unsterilized.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

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Corporate Headquarters

129 Concord Road
Billerica, MA 01821
USA

Customer Service

Tel +1 952 556 4181
Fax +1 952 556 8022
Toll Free 800 394 4083

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