

Flex 200 2D and 3D Bioprocess Bags

*Quality bioprocess assembly solutions
tailored for seamless integration*

Bringing the benefits of tailored design, streamlined adoption, and scalability, Entegris offers customizable 2D and 3D bioprocess assemblies with a broad range of capabilities that can be integrated into a variety of single-use process technology. Applying decades of experience and materials expertise, we provide complete solutions for upstream and downstream applications. The Flex 200 2D and 3D bag assemblies are designed with a film that has a long history of use in single-use technology process systems for seamless integration. The same industry-standard film for both 2D and 3D formats further simplifies qualification processes, reducing time and effort for adoption.

Whether you need a small volume, large volume, or manifold configuration, Flex 200 2D and 3D bag assemblies have been designed for the safe processing and storage of a wide range of biopharmaceutical liquids in a variety of applications.

Standard Features

- 2D and 3D bioprocess assemblies and their associated components are sterilized using gamma irradiation at doses ranging from 25 to 40 kGy to achieve a Sterility Assurance Level (SAL) of 10^{-6} , with the SAL validation method conducted via VDmax25.
- Full traceability of all materials in conformance to USP 85, USP 87, USP 99, USP 661.1.
- Certificate of analysis provided for each lot.
- Manufactured in accordance with ISO9001:2015 certified quality control management system.



APPLICATIONS

- Storage and transport of buffer and media
- Transport of cell harvest suspension
- Purified component collection
- Filtering and storing of intermediates
- Storage and transport of drug substance

FEATURES & BENEFITS

Streamlined adoption	Industry standard certificate of analysis and extractable and leachables documentation as per BPOG
Film scalability	Designs that adapt to evolving process needs from 50 mL to 2000 L nominal volume storage
Customized system design	Bag geometries can be customized to fit existing storage and racking systems

SPECIFICATIONS

	2D BIOPROCESS ASSEMBLY	3D BIOPROCESS ASSEMBLY
Materials of Construction	Flex 200 (PE)	
Film thickness	13 mil	
Volumes	50 mL, 100 mL, 250 mL, 500 mL, 1 L, 2 L, 5 L, 20 L, 50 L	100 L, 200 L, 500 L, 1000 L, 2000 L
Connectors	Wide selection of commercially available sterile connectors	
Tubing	Wide selection of commercially available tubing	

BAG CONFIGURATION

FLEX 200 2D BAGS CONFIGURATION OPTIONS					
Configuration	Bag size	Location	Port-1	Port-2	Port-3
1	50 ml, 100 ml, 250 ml, 500 ml, 1 L	Size	¼"	¼"	N/A
		Tube length	150 mm	150 mm	
		Tube material	TPE	TPE	
		End connection	Luer lock male	Luer lock male	
2	50 ml, 100 ml, 250 ml, 500 ml, 1 L	Size	¼"	¼"	N/A
		Tube length	150 mm	150 mm	
		Tube material	Silicone	Silicone	
		End connection	MPC	MPC	
3	2 L, 5 L, 10 L, 20 L, 50 L	Size	⅜"	⅜"	¼"
		Tube length	300 mm	300 mm	150 mm
		Tube material	Silicone	Silicone	TPE
		End connection	MPC	MPC	Luer lock male
4	2 L, 5 L, 10 L, 20 L, 50 L	Size	⅜"	⅜"	¼"
		Tube length	300 mm	300 mm	150 mm
		Tube material	Silicone	Silicone	TPE
		End connection	AQG	MPC	Luer lock male

FLEX 200 3D BAG CONFIGURATION OPTIONS

Configuration	Bag size	Location	Bottom port	Top port – 1	Top port – 2
1	100 L, 200 L, 500 L, 1000 L	Size	½"	½"	½"
		Tube length	1000 mm	1000 mm	1000 mm
		Tube material	TPE	TPE	TPE
		End connection	MPX Male	MPX Male	MPX Male
2	100 L, 200 L, 500 L, 1000 L	Size	½"	½"	½"
		Tube length	1000 mm	1000 mm	1000 mm
		Tube material	TPE	TPE	TPE
		End connection	AQG	MPX Male	MPX Male
3	100 L	Size	½"	½"	½"
		Tube length	1000 mm	1000 mm	1000 mm
		Tube material	TPE	TPE	TPE
		End connection	AQG	AQG	AQG

DIMENSIONS

Flex 200 2D Storage Bag Dimensions

Capacity	Length	Width
50 mL	132 mm	116 mm
100 mL	172 mm	116 mm
250 mL	188 mm	144 mm
500 mL	234 mm	154 mm
1 L	297 mm	182 mm
2 L	330 mm	236 mm
5 L	554 mm	304 mm
10 L	656 mm	434 mm
20 L	777 mm	501 mm
50 L	949 mm	694 mm

Flex 200 3D Storage Bag Dimensions

Capacity	Width	Depth	Height
100 L	750 mm	575 mm	250 mm
200 L	750 mm	575 mm	525 mm
500 L	1100 mm	725 mm	685 mm
1000 L	1280 mm	980 mm	880 mm
2000 L	1200 mm	1160 mm	1550 mm

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