

DATA SHEET

Purillex® 2D Bag Assemblies



Purillex® 2D Bag Assemblies redefine flexibility and performance in biopharmaceutical process development and manufacturing. Designed with precision for critical fluid handling, storage, and transfer, they provide superior durability and low extractables while complying with the strictest industry standards.

Featuring customizable configurations in size, film type, tubing, and connectors, Purillex 2D Bag Assemblies deliver unmatched scalability and versatility. Engineered for robustness, they are optimized for reliable performance in demanding applications, offering a high-integrity alternative to rigid systems without compromising clarity, low-temperature stability, or biocompatibility.

Because every last drop matters - every time.

PRODUCT DESCRIPTION

Purillex 2D Bag Assemblies are constructed from **Renolit 9101 medical-grade film** and feature an integrated **flexible port system** designed for aseptic fluid transfer, sampling, and storage of media, buffers, reagents, and process intermediates. Each chamber is available in multiple volumes with configurable port and tubing options to support a wide range of bioprocessing applications.

All chambers are designed for use in **upstream, downstream, fill/finish, research, and analytical workflows**, with manufacturing controls that support USP <661>, <665>, <788>, and ISO 11137.

Performance Characteristics

- Low extractables and leachables profile
- High flexibility and durability in handling
- Excellent clarity for visual inspection
- Low particulate manufacturing environment

Typical Applications

- Media and buffer storage
- Sampling
- Seed train operations
- Fill/finish transfer
- Large-scale storage

Designed For

- Small-scale sampling and production
- Process development
- Research/pilot use/bioproduction
- Bench-scale
- Production

Materials of Construction - Standard Products

COMPONENT	MATERIAL	SPECIFICATIONS
Bag film	Renolit 9101	Medical grade, low extractables
Port	USP Class VI medical-grade polyethylene	Welded to chamber
Fittings	USP Class VI medical-grade polyethylene	25 mL to 500 mL = 1/8" dia and 1/4" dia; 1 L to 50 L = 1/8" dia, 1/4" dia, 3/8" dia
Silicone gasket	USP Class VI medical-grade silicone	
Tubing	TPE weldable; silicone	
Connectors	MPC; AseptiQuik	Custom options available

REGULATORY AND QUALITY

Purillex 2D Bag Assemblies support compliance with the following guidelines:

- USP <661> Plastic Packaging Systems and Their Materials of Construction
- USP <665> Plastic Components and Systems Used to Manufacture Pharmaceutical Drug Products and Biopharmaceutical Drug Substances and Products
- USP <788> Particulate Matter in Injections
- ISO 11137 Sterilization of Healthcare Products

Additionally, Certificates of Conformance (CoC) and extractables data packages are available upon request. Please contact us at info@savillex.com for this information.

CUSTOMIZATION

Savillex delivers true “Flexibility off the Shelf” with a streamlined customization process designed to meet the most specific bioprocessing requirements. Any 2D bag assembly can be tailored with your choice of port sizes, number of ports, tubing diameter and length, connector types, and other configuration options.

Our engineering, quality, and manufacturing teams will collaborate closely with you to rapidly translate application needs into reliable, production-ready assemblies—ensuring you get exactly what your workflow demands without compromising performance, compliance, or lead time. View the table at the top of the next page to learn more about what customizations are available for your Purillex Bag Assemblies.

Available Customizations

TUBING MATERIALS	TUBING LENGTHS	NUMBER OF PORTS	CONNECTOR TYPES
TPE	6, 12, or 24 inches	1, 2, or 3 ports	Luer lock (male/female)
Silicone	Custom lengths available		MPC
PharMed BPT			MPX
PVC			AseptiQuik (G, S, C)
			Sanitary tri-clamp
			End caps or tubing plus
			Customer-specified connectors



Close-up view of Purillex 2D Bag Assembly canoe ports

AVAILABLE BAG VOLUMES AND ORDERING INFORMATION

All use Renolit 9101 multilayer coextruded film with standard boat-port geometry. Custom sizes also available.

PART #	DESCRIPTION	TUBING	DIMENSIONS (LxW in. (cm))	PORT 1	PORT 2	PORT 3	QTY/BOX			
TPE Tubing With MPC Connectors										
990-02-2AT2-231	25 mL bag, 3 ports	TPE; 12 in.	5.9" x 5.6" (14.99 x 14.22)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/8" x 1/4" x tubing length	20			
990-02-2AT3-231		TPE; 24 in.								
990-02-2BT2-231	50 mL bag, 3 ports	TPE; 12 in.	6.9" x 5.6" (17.53 x 14.22)				MPC body with plug, pinch clamp	MPC insert with cap, pinch clamp	Swabable valve (needle-free) with cap, pinch clamp	20
990-02-2BT3-231		TPE; 24 in.								
990-02-2CT2-231	150 mL bag, 3 ports	TPE; 12 in.	9.4" x 5.6" (23.88 x 14.22)							20
990-02-2CT3-231		TPE; 24 in.								
990-02-2DT2-231	250 mL bag, 3 ports	TPE; 12 in.	10.4" x 5.6" (26.42 x 14.22)			20				
990-02-2DT3-231		TPE; 24 in.								
990-02-2ET2-231	500 mL bag, 3 ports	TPE; 12 in.	9.9" x 7.3" (25.14 x 18.54)			20				
990-02-2ET3-231		TPE; 24 in.								
990-02-2FT2-231	1 L bag, 3 ports	TPE; 12 in.	12.8" x 7.8" (32.51 x 19.81)			20				
990-02-2FT3-231		TPE; 24 in.								
990-02-2GT2-231	2 L bag, 3 ports	TPE; 12 in.	16.2" x 10.8" (41.15 x 27.43)	20						
990-02-2GT3-231		TPE; 24 in.								
990-02-2HT2-231	5 L bag, 3 ports	TPE; 12 in.	18.7" x 12.8" (47.5 x 32.51)	3/8" x 5/8" x tubing length (9.53 mm x 15.87 mm x tubing length)	3/8" x 5/8" x tubing length (9.53 mm x 15.87 mm x tubing length)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	20			
990-02-2HT3-231		TPE; 24 in.								
990-02-2JT2-231	10 L bag, 3 ports	TPE; 12 in.	29.7" x 12.8" (75.44 x 32.51)				10			
990-02-2JT3-231		TPE; 24 in.								
990-02-2KT2-231	20 L bag, 3 ports	TPE; 12 in.	29.7" x 18.3" (75.44 x 46.48)				10			
990-02-2KT3-231		TPE; 24 in.								
990-02-2LT2-231	50 L bag, 3 ports	TPE; 12 in.	32.7" x 24.8" (83.06 x 62.99)			10				
990-02-2LT3-231		TPE; 24 in.								
TPE Tubing With AseptiQuick G Connectors										
990-02-2AT2-441	25 mL bag, 3 ports	TPE; 12 in.	5.9" x 5.6" (14.99 x 14.22)			1/4" x 7/16" x 12" (6.35 mm x 11.11 mm x 30.48 cm)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/8" x 1/4" x tubing length	20	
990-02-2AT3-441		TPE; 24 in.								
990-02-2BT2-441	50 mL bag, 3 ports	TPE; 12 in.	6.9" x 5.6" (17.53 x 14.22)						AseptiQuick G, pinch clamp	AseptiQuick G, pinch clamp
990-02-2BT3-441		TPE; 24 in.								
990-02-2CT2-441	150 mL bag, 3 ports	TPE; 12 in.	9.4" x 5.6" (23.88 x 14.22)	20						
990-02-2CT3-441		TPE; 24 in.								
990-02-2DT2-441	250 mL bag, 3 ports	TPE; 12 in.	10.4" x 5.6" (26.42 x 14.22)	20						
990-02-2DT3-441		TPE; 24 in.								
990-02-2ET2-441	500 mL bag, 3 ports	TPE; 12 in.	9.9" x 7.3" (25.14 x 18.54)	20						
990-02-2ET3-441		TPE; 24 in.								
990-02-2FT2-441	1 L bag, 3 ports	TPE; 12 in.	12.8" x 7.8" (32.51 x 19.81)	20						
990-02-2FT3-441		TPE; 24 in.								
990-02-2GT2-441	2 L bag, 3 ports	TPE; 12 in.	16.2" x 10.8" (41.15 x 27.43)	20						
990-02-2GT3-441		TPE; 24 in.								
							*See note below			

*1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm); swabable valve (needle-free) with cap, pinch clamp

PART #	DESCRIPTION	TUBING	DIMENSIONS (cm)	PORT 1	PORT 2	PORT 3	QTY/BOX
990-02-2HT2-441	5 L bag,	TPE; 12 in.	18.7" x 12.8"				20
990-02-2HT3-441	3 ports	TPE; 24 in.	(47.5 x 32.51)				
990-02-2JT2-441	10 L bag,	TPE; 12 in.	29.7" x 12.8"	3/8" x 5/8" x tubing length (9.53 mm x 15.87 mm)	3/8" x 5/8" x tubing length (9.53 mm x 15.87 mm)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	10
990-02-2JT3-441	3 ports	TPE; 24 in.	(75.44 x 32.51)				
990-02-2KT2-441	20 L bag,	TPE; 12 in.	29.7" x 18.3"	AseptiQuik G, pinch clamp	AseptiQuik G, pinch clamp	Swabable valve (needle-free) with cap, pinch clamp	10
990-02-2KT3-441	3 ports	TPE; 24 in.	(75.44 x 46.48)				
990-02-2LT2-441	50 L bag,	TPE; 12 in.	32.7" x 24.8"				10
990-02-2LT3-441	3 ports	TPE; 24 in.	(83.06 x 62.99)				
Silicone Tubing With MPC Connectors							
990-02-2AS2-231	25 mL bag,	Silicone; 12 in.	5.9" x 5.6"				20
990-02-2AS3-231	3 ports	Silicone; 24 in.	(14.99 x 14.22)				
990-02-2BS2-231	50 mL bag,	Silicone; 12 in.	6.9" x 5.6"				20
990-02-2BS3-231	3 ports	Silicone; 24 in.	(17.53 x 14.22)				
990-02-2CS2-231	150 mL bag,	Silicone; 12 in.	9.4" x 5.6"	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/8" x 1/4" x tubing length	20
990-02-2CS3-231	3 ports	Silicone; 24 in.	(23.88 x 14.22)				
990-02-2DS2-231	250 mL bag,	Silicone; 12 in.	10.4" x 5.6"	MPC body with plug, pinch clamp	MPC insert with cap, pinch clamp	Swabable valve (needle-free) with cap, pinch clamp	20
990-02-2DS3-231	3 ports	Silicone; 24 in.	(26.42 x 14.22)				
990-02-2ES2-231	500 mL bag,	Silicone; 12 in.	9.9" x 7.3"				20
990-02-2ES3-231	3 ports	Silicone; 24 in.	(25.14 x 18.54)				
990-02-2FS2-231	1 L bag,	Silicone; 12 in.	12.8" x 7.8"				20
990-02-2FS3-231	3 ports	Silicone; 24 in.	(32.51 x 19.81)				
990-02-2GS2-231	2 L bag,	Silicone; 12 in.	16.2" x 10.8"				20
990-02-2GS3-231	3 ports	Silicone; 24 in.	(41.15 x 27.43)				
990-02-2HS2-231	5 L bag,	Silicone; 12 in.	18.7" x 12.8"				20
990-02-2HS3-231	3 ports	Silicone; 24 in.	(47.5 x 32.51)				
990-02-2JS2-231	10 L bag,	Silicone; 12 in.	29.7" x 12.8"	3/8" x 5/8" x tubing length (9.53 mm x 15.87 mm)	3/8" x 5/8" x tubing length (9.53 mm x 15.87 mm)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	10
990-02-2JS3-231	3 ports	Silicone; 24 in.	(75.44 x 32.51)				
990-02-2KS2-231	20 L bag,	Silicone; 12 in.	29.7" x 18.3"	MPC body with plug, pinch clamp	MPC insert with cap, pinch clamp	Swabable valve (needle-free) with cap, pinch clamp	10
990-02-2KS3-231	3 ports	Silicone; 24 in.	(75.44 x 46.48)				
990-02-2LS2-231	50 L bag,	Silicone; 12 in.	32.7" x 24.8"				10
990-02-2LS3-231	3 ports	Silicone; 24 in.	(83.06 x 62.99)				
Silicone Tubing With AseptiQuik G Connectors							
990-02-2AS2-441	25 mL bag,	Silicone; 12 in.	5.9" x 5.6"				20
990-02-2AS3-441	3 ports	Silicone; 24 in.	(14.99 x 14.22)				
990-02-2BS2-441	50 mL bag,	Silicone; 12 in.	6.9" x 5.6"	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/8" x 1/4" x tubing length	20
990-02-2BS3-441	3 ports	Silicone; 24 in.	(17.53 x 14.22)				
990-02-2CS2-441	150 mL bag,	Silicone; 12 in.	9.4" x 5.6"				20
990-02-2CS3-441	3 ports	Silicone; 24 in.	(23.88 x 14.22)				
990-02-2DS2-441	250 mL bag,	Silicone; 12 in.	10.4" x 5.6"	AseptiQuik G, pinch clamp	AseptiQuik G, pinch clamp	Swabable valve (needle-free) with cap, pinch clamp	20
990-02-2DS3-441	3 ports	Silicone; 24 in.	(26.42 x 14.22)				

PART #	DESCRIPTION	TUBING	DIMENSIONS (cm)	PORT 1	PORT 2	PORT 3	QTY/BOX
990-02-2ES2-441	500 mL bag, 3 ports	Silicone; 12 in.	9.9" x 7.3" (25.14 x 18.54)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	1/8" x 1/4" x tubing length	20
990-02-2ES3-441		Silicone; 24 in.					
990-02-2FS2-441	1 L bag, 3 ports	Silicone; 12 in.	12.8" x 7.8" (32.51 x 19.81)	AseptiQuik G, pinch clamp	AseptiQuik G, pinch clamp	Swabable valve (needle-free) with cap, pinch clamp	20
990-02-2FS3-441		Silicone; 24 in.					
990-02-2GS2-441	2 L bag, 3 ports	Silicone; 12 in.	16.2" x 10.8" (41.15 x 27.43)				20
990-02-2GS3-441		Silicone; 24 in.					
990-02-2HS2-441	5 L bag, 3 ports	Silicone; 12 in.	18.7" x 12.8" (47.5 x 32.51)	3/8" x 5/8" x tubing length (9.53 mm x 15.87 mm)	3/8" x 5/8" x tubing length (9.53 mm x 15.87 mm)	1/4" x 7/16" x tubing length (6.35 mm x 11.11 mm)	20
990-02-2HS3-441		Silicone; 24 in.					
990-02-2JS2-441	10 L bag, 3 ports	Silicone; 12 in.	29.7" x 12.8" (75.44 x 32.51)	AseptiQuik G, pinch clamp	AseptiQuik G, pinch clamp	Swabable valve (needle-free) with cap, pinch clamp	10
990-02-2JS3-441		Silicone; 24 in.					
990-02-2KS2-441	20 L bag, 3 ports	Silicone; 12 in.	29.7" x 18.3" (75.44 x 46.48)	AseptiQuik G, pinch clamp	AseptiQuik G, pinch clamp		10
990-02-2KS3-441		Silicone; 24 in.					
990-02-2LS2-441	50 L bag, 3 ports	Silicone; 12 in.	32.7" x 24.8" (83.06 x 62.99)				10
990-02-2LS3-441		Silicone; 24 in.					

[Click here](#) for more information on Purillex bag assemblies and to shop online.
Please reach out to us at info@savillex.com with any questions.