BELLCO

LIQUID SINGLE-USE BAGS

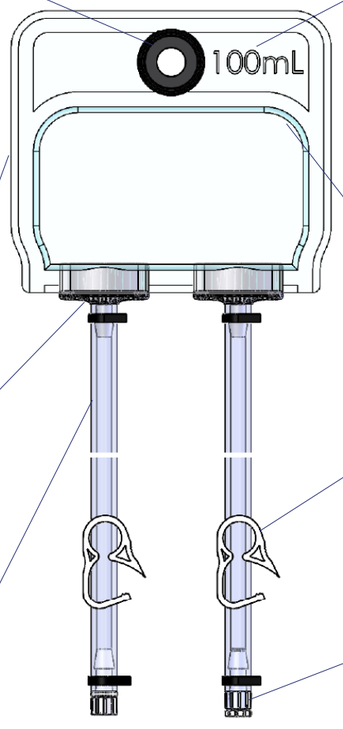
Single-Use, Multi-Level Performance

Manufactured in
Vineland, NJ
since 1936

MADE IN USA

LIQUID SINGLE USE BAGS

Small Bags (50mL, 100mL, 250mL, 500mL, 1L & 2L)



HANGING GROMMET
Reduces stress on film
Optimizes load distribution
Eliminates weak points
Improves bag strength

BAG SIZE
Imprinted on Film

LOW PROFILE BAG DESIGN
Reduces fluid hold up
Minimizes dead volume
Improves product recovery

ROUNDED WELDS
Eliminates weak points
Minimizes dead volume
Improves product recovery
Improves bag strength

END PORT DESIGN
Maximizes fluid recovery
Minimizes dead volume
Improves product recovery
Large weld area for
added security

INTEGRATED CLIP
Simple thumb actuated flow

TUBING
Standard TPE
Contact for
additional options

FITTING OPTIONS
Standard MPCor Luer
Options include:
AseptiQuik S or G
Contact for
additional options

Bag Volume	# of Ports	Tubing	Port Sizes			Connectors			Internal Surface Area	
			Port 1	Port 2	Port 3	Line 1	Line 2	Line 3	In^2	cm^2
50mL	2	TPE	¼"	¼"	N/A	Luer	Luer	N/A	25	161.3
100mL	2	TPE	¼"	¼"	N/A	Luer	Luer	N/A	30	193.5
250mL	2	TPE	¼"	¼"	N/A	Luer	Luer	N/A	46	296.8
500mL	2	TPE	¼"	¼"	N/A	Luer	Luer	N/A	66	425.8
500mL	2	TPE	¼"	¼"	N/A	MPC	MPC	N/A	66	425.8
500mL	3	TPE	⅜"	⅜"	¼"	MPC	MPC	Injection Cap	66	425.8
1L	2	TPE	¼"	¼"	N/A	Luer	Luer	N/A	105	677.4
1L	2	TPE	⅜"	⅜"	N/A	MPC	MPC	N/A	105	677.4
1L	3	TPE	⅜"	⅜"	¼"	MPC	MPC	Injection Cap	105	677.4
2L	3	TPE	⅜"	⅜"	¼"	MPC	MPC	Injection Cap	174	1,122.6
5L	3	TPE	⅜"	⅜"	¼"	MPC	MPC	Injection Cap	280	1,806.4
10L	3	TPE	⅜"	⅜"	¼"	MPC	MPC	Injection Cap	441	2,845.2
20L	3	TPE	⅜"	⅜"	¼"	MPC	MPC	Injection Cap	772	4,980.6
50L	3	TPE	⅜"	⅜"	¼"	MPC	MPC	Injection Cap	1930	12,451.6

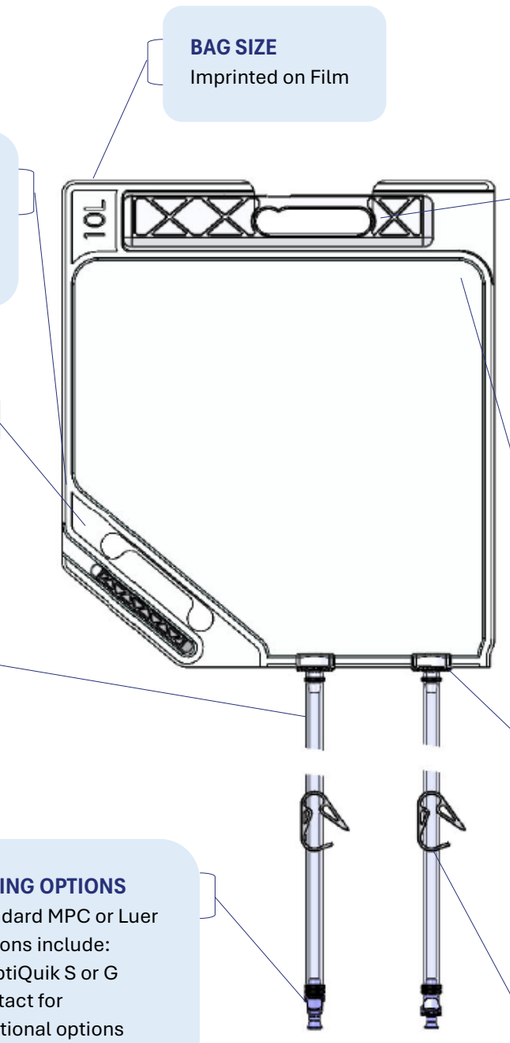
YOUR SINGLE-USE SOLUTION FOR CRITICAL FLUIDS.

Liquid single-use bags are available in standard sizes from 50 mL to 20 L in 2 and 3-port options, and can be customized up to 50 L with up to 4-ports in larger chamber sizes (2 L to 50 L). Custom face-ported 2D bags are also available in 20 L, 50 L, 100 L and 200 L.

Applications:

- Buffer and cell culture media
- Bulk product collections and storage
- Chromatography and filtration buffer
- Fraction collection
- Product sampling and transport
- In Vitro Cell Culture
- Cell-based vaccine production
- Immunotherapy products
- Bulk Aliquoting
- Scale-up
- ULT Storage down to –40°C

Large Bags (5L, 10L, 20L & 50L)



BAG SIZE
Imprinted on Film

SHAPED SIDE WALL
Reduces fluid hold-up
Minimizes dead volume
Improves product recovery

TOP HANDLE
Ergonomic design
Center hanging point
Optimizes load distribution
Eliminates weak points
Improves bag strength

LOWER SIDE HANDLE
Ergonomic design
Allows easy handling of
larger, heavier bags

ROUNDED WELDS
Eliminates weak points
Minimizes dead volume
Improves product recovery
Improves bag strength

TUBING
Standard TPE
Contact for
additional options

END PORT DESIGN
Maximizes fluid recovery
Minimizes dead volume
Improves product recovery
Large weld area for
added security

FITTING OPTIONS
Standard MPC or Luer
Options include:
AseptiQuik S or G
Contact for
additional options

INTEGRATED CLIP
Simple thumb actuated flow

BELLCO

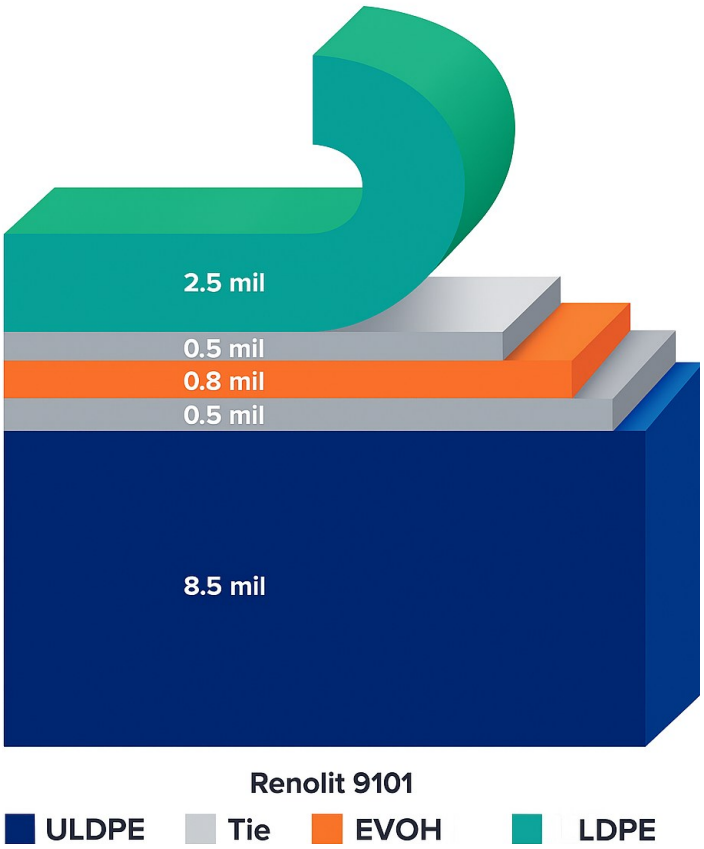
Medical-Grade Renolit 9101 PE Film

All liquid single-use bags are manufactured with industry-proven, medical-grade Renolit 9101 film, a multilayer film composed of a high-purity biocompatible polyethylene (PE) contact layer with internal ethylene vinyl alcohol (EVOH) oxygen-barrier.

Physical Properties	
Property	**Typical Value***
Film Thickness	0.325mm
Clarity	97% (ASTM D-1003)
Tensile Strength at Break	13MPa (ASTM D-882)
Elongation at Break	350% (ASTM D-882)
Break at Cold Temperature	< -45°C (ISO 8570)
Water Vapor Transmission†	0.32 g/m2/day (ASTM F-1249)
O2 Permeability‡	<0.05 cm3/m2/day/bar
CO2 Permeability‡	<0.2 cm3/m2/day/bar

** Transmission values for film gamma-irradiated with 50 KGy. Other are for film gamma-irradiated with 25 KGy.*
† @ 23 °C, 100% RH.
‡ @ 23 °C, 0% RH.

Renolit 9101 PE Film Layers



Quality, Regulatory, and Biocompatibility Properties	
Category	**Property/Test***
Composition	• High-purity polyethylene (PE) and ethylene vinyl alcohol (EVOH) • Animal-Derived Component Free (ADCF) and TSE/BSE
Biocompatibility	• ISO 10993-4, Hemolysis • ISO 10993-5, Toxicity • ISO 10993-6, Implantation • ISO 10993-10, Irritation and Sensitization • ISO 10993-11, Acute System Toxicity • USP <85>, Bacterial Endotoxins - LAL test • USP <87>, Biological Reactivity in vitro • USP <88>, Biological Reactivity in vivo, Class VI
Extractables/ Leachables	• USP <661.1>, Polyethylene Physiochemical Tests, Extractable Metals, Plastic Additives • Ph. Eur.3.1.5, Polyethylene with additives for containers for parenteral preparations and for ophthalmic Preparations
Recommended Sterilization Method	Gamma

** Pharmacopoeia and Biocompatibility compliance test reports available upon request*

BELLCO

MADE IN USA

CONTACT US:
Phone: 1-800-257-7043
Email: cservice@bellcoglass.com
Web: www.bellcoglass.com