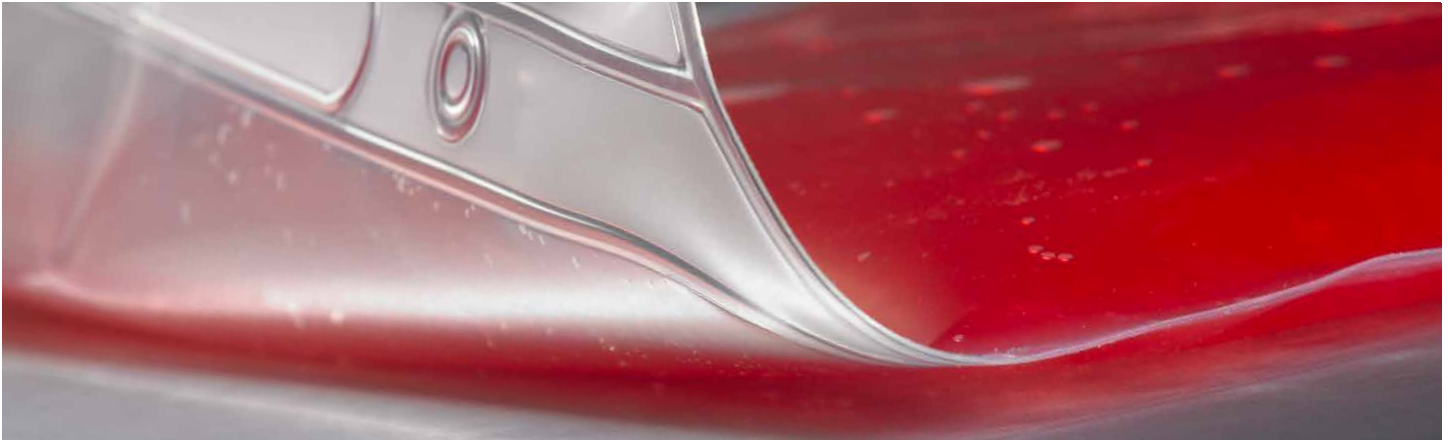


Corning® Media-filled Single-use Technologies

Original solutions – customized to your
workflow and application

CORNING





Standard, custom configured, or completely customized

Total flexibility to meet your exact requirements

With over 95 years of experience in research, product development, and manufacturing, Corning Life Sciences is uniquely positioned as a partner who can deliver an extensive portfolio of standard products as well as customized solutions.

Corning offers single-use technologies in several standard options with a wide range of volume sizes to meet your exact requirements. Also available are single-use bags that are designed to be practical and cost effective alternatives to rigid walled containers.

Each solution may be customized to match your specific application with a variety of available bag sizes and tubing/connector configurations. These containment and delivery systems preserve the physical, chemical, and functional characteristics of sterile fluids.

Should you need something completely customized, we can create an original solution to meet your exact requirements.

Features

- ▶ High quality barrier films
- ▶ Sterile
- ▶ Gas and moisture barriers to minimize transmission of oxygen, carbon dioxide, and water vapor
- ▶ Universal connection systems
- ▶ Wide variety of standard configurations

Benefits

- ▶ Easily integrated in automated systems
- ▶ Reduces costs associated with washing, sterilization, and SIP/CIP validations
- ▶ Reduces the risks associated with cross-contamination
- ▶ Minimal set-up time

Industry Recognized Manufacturing Standards

- ▶ cGMP and ISO 13485 certified manufacturing process
- ▶ Complete documentation and traceability
- ▶ Animal-free manufacturing process



Getting started is easy. Review the following options to select your media, customize your connectors and tubing, and select your bag size. Don't see a configuration that works for you? We can create a totally custom solution. Contact your Corning Account Manager for more information.

1. Select your media formulation

Our media formulations range from classical media and buffers, to high-quality water and custom media solutions. We have suggested configurations below, but a completely customized solution can be created with any media and bag combination. You can find a full list of our media options on www.corning.com/lifesciences.

	Cat. No.	Media Description	Frequently Used With	Bag Design Reference No.
Classical Media and Buffers	15-013-LX	DMEM [+] 4.5 g/L Glucose, sodium pyruvate; [-] L-glutamine	10L bag	4.101
	10-013-LB	DMEM [+] 4.5 g/L Glucose, L-glutamine, sodium pyruvate	20L bag	4.102
	15-013-LB	DMEM [+] 4.5 g/L Glucose, sodium pyruvate; [-] L-glutamine	20L bag	4.102
	10-040-LB	RPMI 1640 [+] L-glutamine	20L bag	4.102
	15-040-LB	RPMI 1640 [-] L-glutamine	20L bag	4.102
	21-031-LB	DPBS [-] calcium and magnesium, 1x	20L bag	4.102
Specialty Media	46-060-LB	Tryptic Soy Broth (TSB), animal-free, liquid	20L bag	4.121
	40-215-LB	hybrigro™ SF medium with Corning glutagro™ supplement	20L bag	4.115
High Quality Water	25-055-LB	Water, cell culture grade, tested to USP sterile WFI specifications	20L bag	4.102
	25-065-LB	Water, cell culture grade, tested to USP and EP sterile WFI specifications	20L bag	4.102
	25-055-LG	Water, cell culture grade, tested to USP sterile WFI specifications	100L bag	4.105
	25-065-LG	Water, cell culture grade, tested to USP and EP sterile WFI specifications	100L bag	4.105
	25-055-LH	Water, cell culture grade, tested to USP sterile WFI specifications	200L bag	4.109
	25-065-LH	Water, cell culture grade, tested to USP and EP sterile WFI specifications	200L bag	4.109

2. Select your bag size/volume from the options listed starting on page 4

Standard sizes include: 1L, 5L, 10L, 20L, 50L, 100L, 200L. If needed, a customized size or volume can be created. Standard bags are composed of a single-layer co-extruded film with metallocene catalyzed polyethylene as the product contact layer.

3. Select your tubing connectors and configuration

Choose your Luer locks, MPC connector, and tubing to specifically match your needs.



Luer locks

Suited for:

- ▶ Drawing samples
- ▶ Supplement addition
- ▶ Inoculation of culture

Feature

- ▶ Smaller ID tubing



MPC Connectors

Suited for:

- ▶ Quick connections
- ▶ Sterile transfers

Features

- ▶ Typically has a larger ID tubing than Luer lock



Tubing

Platinum-cured medical grade silicone (PCMGS) tubing

- ▶ Compatible with peristaltic pumps

Chemically resistant, heat sealable flexible tubing

- ▶ Compatible with tube welder

4. If the options above do not meet your specifications, please contact us for:

Custom bag designs including:

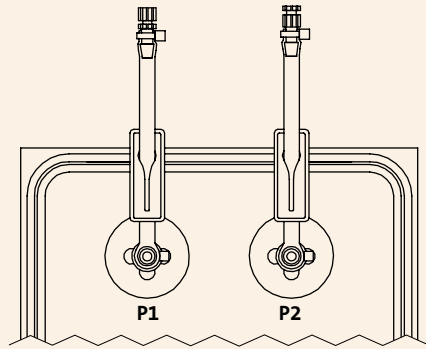
- ▶ Specialized tubing size, type, length, number of ports, dip tubes, etc.
- ▶ Film types: Metallocene, EVA, ULDPE, and others

Modified formulation in standard or custom configured bag

- ▶ Modified classical formulations
- ▶ Proprietary customer designed formulation
- ▶ Private labeling for OEM media solutions

Bag Volume Options

1 Liter Capacity

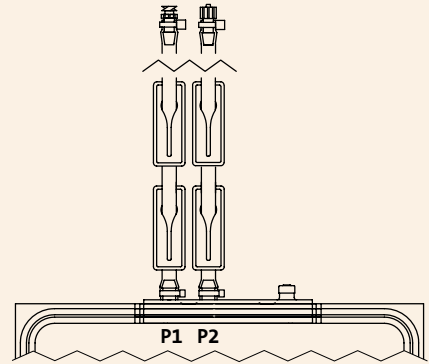


Bag Design	Film	Dimensions
04.108	Metallocene	10.5" x 7.25"

Tubing/Connector Specifications

P1	3" length 1/4" I.D. x 3/8" O.D. PCMGs tubing; slide clamp; female Luer with 1/4" barb and cap
P2	3" length 1/4" I.D. x 3/8" O.D. PCMGs tubing; slide clamp; male Luer with 1/4" barb and cap

5 Liter Capacity

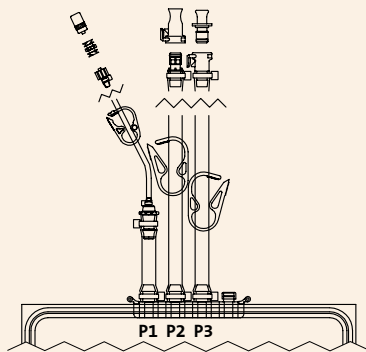


Bag Design	Film	Dimensions
04.107	Metallocene	16" x 11.75"

Tubing/Connector Specifications

P1	30" length 1/4" I.D. x 3/8" O.D. PCMGs tubing; slide clamps; female Luer with 1/4" barb and cap
P2	30" length 1/4" I.D. x 3/8" O.D. PCMGs tubing; slide clamps; male Luer with 1/4" barb and cap

5 Liter Capacity

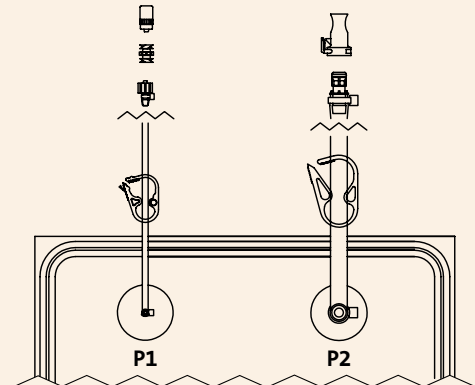


Bag Design	Film	Dimensions
04.116	Metallocene	16" x 11.75"

Tubing/Connector Specifications

P1	24" length 1/8" I.D. x 1/4" O.D. clear, chemically resistant, heat sealable, flexible tubing; pinch clamp, male Luer with 1/8" barb; female Luer coupler; male Luer injection connector
P2	24" length 3/8" I.D. x 1/2" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp, male MPC with 3/8" barb and cap
P3	24" length 3/8" I.D. x 1/2" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp, female MPC with 3/8" barb and plug

5 Liter Capacity



Bag Design	Film	Dimensions
04.119	Metallocene	16" x 11.75"

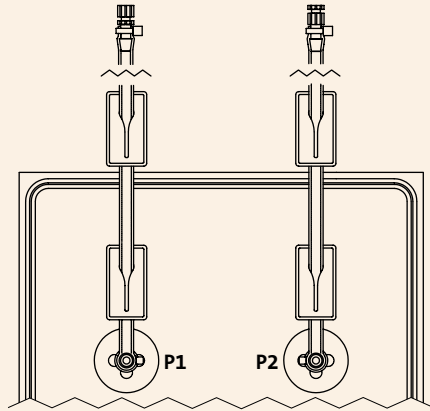
Tubing/Connector Specifications

P1	24" length 1/8" I.D. x 1/4" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamps; male Luer with 1/8" barb; female Luer coupler; male Luer injection connector
P2	24" length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamps; male MPC with 3/8" barb and cap

Drawings not to scale. Designs are subject to change.

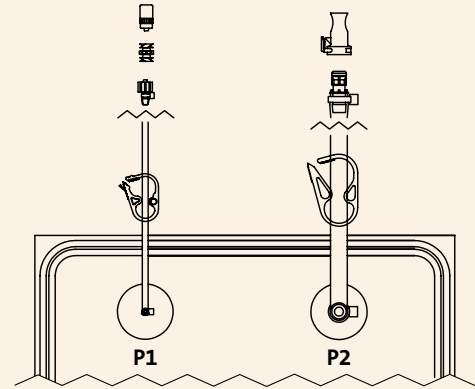
Bag Volume Options (continued)

10 Liter Capacity



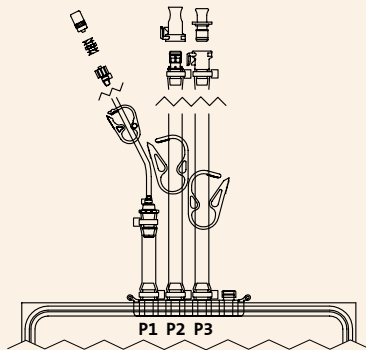
Bag Design	Film	Dimensions
04.101	Metallocene	18.25" x 17"
Tubing/Connector Specifications		
P1	24" length 1/4" I.D. x 3/8" O.D. PCMGS tubing; slide clamps; female Luer with 1/4" barb and cap	
P2	24" length 1/4" I.D. x 3/8" O.D. PCMGS tubing; slide clamps; male Luer with 1/4" barb cap	

10 Liter Capacity



Bag Design	Film	Dimensions
04.120	Metallocene	18.25" x 17"
Tubing/Connector Specifications		
P1	24" length 1/8" I.D. x 1/4" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamps; male Luer with 1/8" barb; female Luer coupler; male Luer injection connector	
P2	24" length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamps; male MPC with 3/8" barb and cap	

10 Liter Capacity

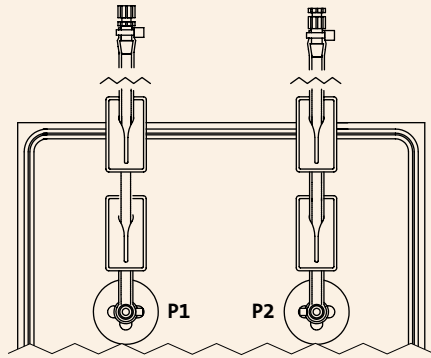


Bag Design	Film	Dimensions
04.117	Metallocene	18.25" x 17"
Tubing/Connector Specifications		
P1	24" length 1/8" I.D. x 1/4" O.D. clear, chemically resistant, heat sealable, flexible tubing; pinch clamp, male Luer with 1/8" barb; female Luer coupler; male Luer injection connector	
P2	24" length 3/8" I.D. x 1/2" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp, male MPC with 3/8" barb and cap	
P3	24" length 3/8" I.D. x 1/2" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp, female MPC with 3/8" barb and plug	

Drawings not to scale. Designs are subject to change.

Bag Volume Options (continued)

20 Liter Capacity

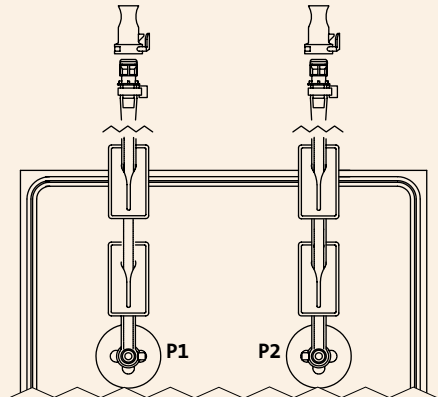


Bag Design	Film	Dimensions
04.102	Metallocene	25" x 19"

Tubing/Connector Specifications

P1	24" length 1/4" I.D. x 3/8" O.D. PCMGs tubing; slide clamps; female Luer with 1/4" barb and cap
P2	24" length 1/4" I.D. x 3/8" O.D. PCMGs tubing; slide clamps; male Luer with 1/4" barb and cap

20 Liter Capacity

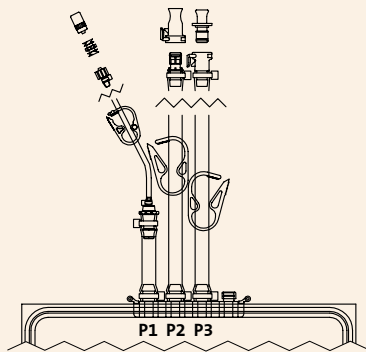


Bag Design	Film	Dimensions
04.110	Metallocene	25" x 19"

Tubing/Connector Specifications

P1	24" length 1/4" I.D. x 3/8" O.D. PCMGs tubing; slide clamps; male MPC with 1/4" barb and cap
P2	24" length 1/4" I.D. x 3/8" O.D. PCMGs tubing; slide clamps; male MPC with 1/4" barb and cap

20 Liter Capacity

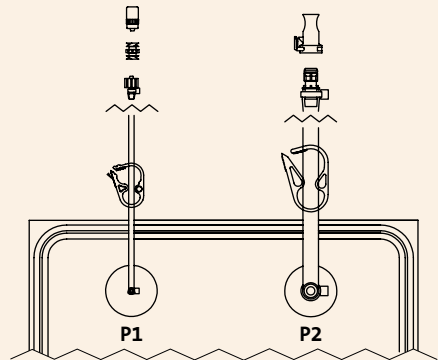


Bag Design	Film	Dimensions
04.115	Metallocene	25" x 19"

Tubing/Connector Specifications

P1	24" length 1/8" I.D. x 1/4" O.D. clear, chemically resistant, heat sealable, flexible tubing; pinch clamp, male Luer with 1/8" barb; female Luer coupler; male Luer injection connector
P2	24" length 3/8" I.D. x 1/2" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp, male MPC with 3/8" barb and cap
P3	24" length 3/8" I.D. x 1/2" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp, female MPC with 3/8" barb and plug

20 Liter Capacity



Bag Design	Film	Dimensions
04.121	Metallocene	25" x 19"

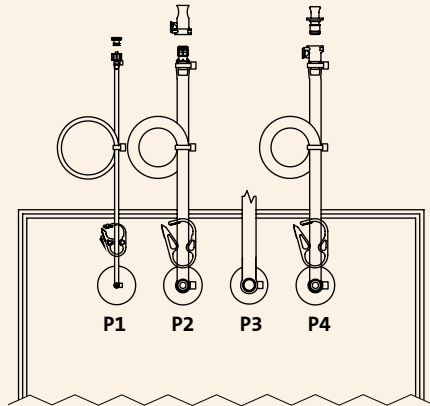
Tubing/Connector Specifications

P1	24" length 1/8" I.D. x 1/4" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamps; male Luer with 1/8" barb; female Luer coupler; male Luer injection connector
P2	24" length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamps; male MPC with 3/8" barb and cap

Drawings not to scale. Designs are subject to change.

Bag Volume Options (continued)

50 Liter Capacity

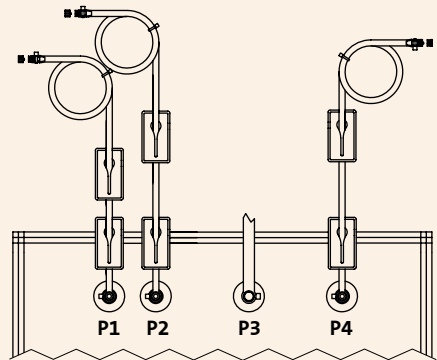


Bag Design	Film	Dimensions
04.118	Metalocene	37.5" x 21.5"

Tubing/Connector Specifications

- P1** 3' length 1/8" I.D. x 1/4" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; male Luer with 1/8" barb and cap
- P2** 3' length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; male MPC with 3/8" barb and plug
- P3** Fill line
- P4** 3' length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; female MPC with 3/8" barb and plug

100 Liter Capacity

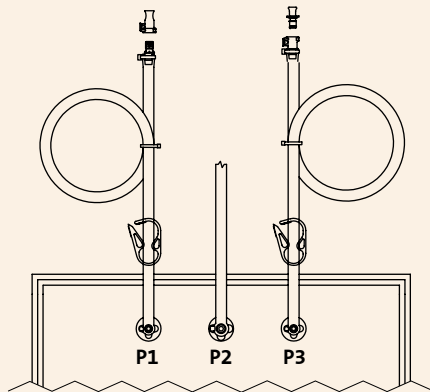


Bag Design	Film	Dimensions
04.111	Metalocene	42.5" x 30"

Tubing/Connector Specifications

- P1** 5' length 1/4" I.D. x 3/8" O.D. chemically resistant, heat sealable, flexible tubing; slide clamps; female Luer with 1/4" barb and cap
- P2** 5' length 1/4" I.D. x 3/8" O.D. chemically resistant, heat sealable, flexible tubing; slide clamps; female Luer with 1/4" barb and cap
- P3** Fill line
- P4** 5' length 1/4" I.D. x 3/8" O.D. chemically resistant, heat sealable, flexible tubing; slide clamps; male Luer with 1/4" barb and cap

100 Liter Capacity



Bag Design	Film	Dimensions
04.105	Metalocene	42.5" x 30"

Tubing/Connector Specifications

- P1** 5' length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; male MPC with 3/8" barb and cap
- P2** Fill line
- P3** 5' length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; female MPC with 3/8" barb and plug

Bag Volume Options (continued)

200 Liter Capacity		
Bag Design	Film	Dimensions
04.109	Metallocene	56" x 37.5"
Tubing/Connector Specifications		
P1	5' length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; male MPC with 3/8" barb and cap	
P2	Fill line	
P3	5' length 3/8" I.D. x 5/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; female MPC with 3/8" barb and plug	

200 Liter Capacity		
Bag Design	Film	Dimensions
04.114	Metallocene	56" x 37.5"
Tubing/Connector Specifications		
P1	5' length 1/4" I.D. x 3/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; male Luer with 1/4" barb and cap	
P2	Fill line	
P3	5' length 1/4" I.D. x 3/8" O.D. chemically resistant, heat sealable, flexible tubing; pinch clamp; female Luer with 1/4" barb and plug	

Drawings not to scale. Designs are subject to change.

For more specific information on claims, visit the Certificates page at www.corning.com/lifesciences.

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