

# Lifecube Single-use Bags



# Lifecube Single-use Bags

The single-use system is a process equipment solution. Compared with the traditional stainless steel system, it has the advantages of lower initial cost, no cleaning, and speeding up the development and production progress. At present, it has been widely used in the field of biopharmaceuticals, such as vaccines, antibodies, gene and cell therapy, etc., in all processes from cell culture to preparation filling.

Cobetter Lifecube single-use bags are exclusively designed by Hangzhou Cobetter Filtration Equipment Co., Ltd. The entire manufacturing process of Cobetter Lifecube single-use bags from raw material storage to product packaging is completed in the ISO Class 7 clean zones. Cobetter establishes and continuously maintains the company's quality assurance system in accordance with the requirements of ISO® 9001:2015 quality management system and cGMP. All the products are manufactured under strict quality system to ensure stable and reliable quality. Cobetter Lifecube can help you achieve simpler process, greater process efficiency and productivity, easier verification and safer products.

- The films have low extractables, low precipitation, good physical strength, chemical compatibility and biocompatibility
- High transparency film is conducive to auxiliary process judgment
- It can meet all kinds of storage and transportation needs in the biopharmaceutical processes
- Flexible custom size and tubings, suitable for various processes

## Features

- The film has low level of extractables and leachables, good physical strength, chemical compatibility and biocompatibility
- Easy to process judgment for high transparency film
- Meet the requirements of various solutions storage and transfer in the biopharmaceutical process
- Flexibly design bags and tubings for various processes

## Typical Applications

- Buffer and media preparation, storage and transfer
- Preparation of bioreactor feeds
- Purified components collection
- Storage of purified intermediates
- Stock solution storage and transfer
- Formulation filling








# Lifecube Film I

## Specifications

Netherlands Renolit 9101 and Lifemeta KA, the films of Cobetter Lifecube single-use bags, are composed of five layers. The thickness, materials and performance of each layer are given below.

### Netherlands Renolit 9101 Film

	230µm	<b>ULDPE</b> Fluid contact layer, ultra-low density polyethylene	Low extractables & leachables, broad chemical compatibility and biological safety.
	10µm	<b>Tie</b> Bonding layer	
	20µm	<b>EVOH</b> Gas barrier layer, ethylene vinyl alcohol	Minimizes gas transfusion
	10µm	<b>Tie</b> Bonding layer	
	50µm	<b>LDPE</b> Outer layer, low density polyethylene	Protective layer

### Renolit 9101 Film Specifications

Physical Property	Value ( Post gamma sterilization, above 25 kGy)	Procedure
Haze	8.0 %	ASTM D-1003
Transmittance	91.7%	ASTM D-1003
Tensile Strength at Break	Transverse 15.2 Lengthways 16.0 , MPa	ASTM D-882
Elongation at Break	Transverse 320 Lengthways 320 , %	ASTM D-882
Elastic Modulus	Transverse 337 Lengthways 332 , MPa	ASTM D-882
Brittleness Temperature by Impact	below -70 °C	ISO 8570
Density	0.923 g/cm <sup>3</sup>	ASTM D-792
Water Vapor Transmission Rate	0.331 g/(m <sup>2</sup> ·day) (23 °C, 100 % RH)	ASTM F-1249
Oxygen Permeability	0.322 cm <sup>3</sup> /(m <sup>2</sup> ·day·bar)	ASTM D-3985
Carbon Dioxide Permeability	0.370 cm <sup>3</sup> /(m <sup>2</sup> ·day·bar)	ASTM F-2476
Particulate Matter	Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals.	
Bacterial Endotoxin	Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL),USP <85>.	
USP <87> Cytotoxicity	Meet the requirements of USP <87> in Vitro Biological Reactivity Test.	
USP <88> Biological Reactivity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics.	
Indirect Food Additive	The fluid contact component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182.	
Animal Derivative Content	Products do not contain animal derived components and are free from TSE risk.	
Quality Assurance	These products are manufactured in a facility which adheres to ISO® 9001:2015 Practices.	

# Lifecube Film II

## Lifemeta KA Film

	230µm	<b>ULDPE</b> Fluid contact layer, ultra-low density polyethylene	Low extractables & leachables, broad chemical compatibility and biological safety.
	25µm	<b>Tie</b> Bonding layer	
	20µm	<b>EVOH</b> Gas barrier layer, ethylene vinyl alcohol	Minimizes gas transfection
	25µm	<b>Tie</b> Bonding layer	
	30µm	<b>HDPE</b> Outer layer, high density polyethylene	Protective layer

## Lifemeta KA Film Specifications

Physical Property	Value ( Post gamma sterilization, above 25 kGy)	Procedure
Haze	21.2 %	ASTM D-1003
Transmittance	90.2%	ASTM D-1003
Tensile Strength at Break	Transverse 21.9 Lengthways 26.7 , MPa	ASTM D-882
Elongation at Break	Transverse 380 Lengthways 420 , %	ASTM D-882
Elastic Modulus	Transverse 277 Lengthways 289 , MPa	ASTM D-882
Brittleness Temperature by Impact	below -70 °C	ISO 8570
Density	0.941 g/cm <sup>3</sup>	ASTM D-792
Water Vapor Transmission Rate	0.593 g/(m <sup>2</sup> ·day) (23 °C, 100 % RH)	ASTM F-1249
Oxygen Permeability	1.024 cm <sup>3</sup> /(m <sup>2</sup> ·day·bar)	ASTM D-3985
Carbon Dioxide Permeability	1.455 cm <sup>3</sup> /(m <sup>2</sup> ·day·bar)	ASTM F-2476
Particulate Matter	Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals.	
Bacterial Endotoxin	Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL),USP <85>.	
USP <87> Cytotoxicity	Meet the requirements of USP <87> in Vitro Biological Reactivity Test.	
USP <88> Biological Reactivity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics.	
Indirect Food Additive	The fluid contact component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182.	
Animal Derivative Content	Products do not contain animal derived components and are free from TSE risk.	
Quality Assurance	These products are manufactured in a facility which adheres to ISO® 9001:2015 Practices.	



# Lifecube 2D/3D Single-use Bags

## Quality Assurance

- ISO® 9001:2015 quality management system
- ISO Class 7 clean zones
- 100% leak testing for Lifecube® 2D single-use bags
- ADCF raw materials
- Meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the requirement of USP <87> In Vitro Biological Reactivity Test
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics

## Features

- Good physical strength and excellent biological safety
- Integrated bag body designed for Lifecube® 2D single-use bags and less residual liquid
- Double-layer sterile packaging sterilized by 25-45 kGy gamma irradiation
- Variable and flexible customized services
- Various and scalable

## Typical Applications

- Buffer and media storage and transfer after filtration
- Intermediates storage
- Stock solution storage
- Formulation filling

- Aqueous extraction contains <0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals
- Verify gamma irradiation dose according to ISO® 11137
- Provide product Validation Guide and Certificate of Quality





# Lifecube AS Single-use Sampling Bags

## Quality Assurance

- ISO® 9001:2015 quality management system
- ISO Class 7 clean zones
- 100% leak testing
- ADCF raw materials
- Meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the requirement of USP <87> In Vitro Biological Reactivity Test
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics
- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals
- Verify gamma irradiation dose according to ISO® 11137

## Features

- Good physical strength and excellent biological safety
- Integrated bag body and less residual liquid
- Double-layer sterile packaging sterilized by 25-45 kGy gamma irradiation
- Various choices for sampling application
- Variable and flexible customized services

## Typical Applications

- Sampling with single-use bags
- Secondary sampling from sampling bag
- Store samples after sampling



# Buffer and Media Applications

## Lifemeta STD Pt-cured Silicone Tubing

Volume	Line 1	Line 2	Cat. No.1(9101 Film)	Cat. No2(KA Film)
5ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	None	AS5ML1DLN	KAS5ML1DLN
50ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0051DLF	KAS0051DLF
50ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Sampling Plug	AS0051DLV	KAS0051DLV
50ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Sealing Cap	AS0051DLC	KAS0051DLC
50ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock+ Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0051DEF	KAS0051DEF
100ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0101DLF	KAS0101DLF
100ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Sampling Plug	AS0101DLV	KAS0101DLV
100ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Sealing Cap	AS0101DLC	KAS0101DLC
100ml	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock+ Sealing Cap	20 cm ID 1/8" * OD 1/4" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0101DEF	KAS0101DEF
250ml	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0251DLF	KAS0251DLF
250ml	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Sampling Plug	AS0251DLV	KAS0251DLV
250ml	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Sealing Cap	AS0251DLC	KAS0251DLC
500ml	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0501DLF	KAS0501DLF
500ml	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Sampling Plug	AS0501DLV	KAS0501DLV
500ml	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Male Luer Lock + Sealing Cap	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Female Luer Lock + Sealing Cap	AS0501DLC	KAS0501DLC

## C-Flex 374 Tubing

Volume	Line 1	Line 2	Cat. No.1(9101 Film)	Cat. No2(KA Film)
5ml	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	None	AS5ML1CLN	KAS5ML1CLN
50ml	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0051CLF	KAS0051CLF
50ml	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Female Luer Lock + Sampling Plug	AS0051CLV	KAS0051CLV
100ml	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0101CLF	KAS0101CLF
100ml	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Female Luer Lock + Sampling Plug	AS0101CLV	KAS0101CLV
250ml	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0251CLF	KAS0251CLF
250ml	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/8" * OD 1/4" C-Flex 374 Tubing + Female Luer Lock + Sampling Plug	AS0251CLV	KAS0251CLV
500ml	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Female Luer Lock + Needlefree Swabable Valve	AS0501CLF	KAS0501CLF
500ml	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Male Luer Lock + Sealing Cap	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Female Luer Lock + Sampling Plug	AS0501CLV	KAS0501CLV

\*For more pre-designed solutions, please contact Cobetter sales or technical assistance.









# 2D Standard Bags Ordering Information IV

## Connection via C-Flex 374 Tubing

Volume	Inlet/Outlet	Sampling	Cat. No.1(9101 Film)	Cat. No2(KA Film)
2D 250ml	In Let: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug	None	2D025C2NP	K2D025C2NP
2D 500ml	In Let: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug	None	2D050C2NP	K2D050C2NP
2D 1L	In Let: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug	None	2D01LC2NP	K2D01LC2NP
2D 1L	In Let: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D01LC21P	K2D01LC21P
2D 1L	In Let: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 + Female Luer Lock + Sealing Plug	2D01LC2CP	K2D01LC2CP
2D 2L	In Let: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug	None	2D02LC2NP	K2D02LC2NP
2D 2L	In Let: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D02LC21P	K2D02LC21P
2D 2L	In Let: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 + Female Luer Lock + Sealing Plug	2D02LC2CP	K2D02LC2CP
2D 5L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	None	2D05LC2NP	K2D05LC2NP
2D 5L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D05LC21P	K2D05LC21P
2D 5L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 + Female Luer Lock + Sealing Plug	2D05LC2CP	K2D05LC2CP
2D 10L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	None	2D10LC2NP	K2D10LC2NP
2D 10L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D10LC21P	K2D10LC21P
2D 10L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 + Female Luer Lock	2D10LC2CP	K2D10LC2CP
2D 20L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	None	2D20LC2NP	K2D20LC2NP
2D 20L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D20LC21P	K2D20LC21P
2D 20L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 + Female Luer Lock + Sealing Plug	2D20LC2CP	K2D20LC2CP
2D 20L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + 3/4" Tri-clamp (TC25) Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + 3/4" Tri-clamp (TC25)	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D20LC21T	K2D20LC21T
2D 35L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	None	2D35LC2NP	K2D35LC2NP
2D 35L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D35LC21P	K2D35LC21P
2D 35L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 + Female Luer Lock + Sealing Plug	2D35LC2CP	K2D35LC2CP
2D 50L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	None	2D50LC2NP	K2D50LC2NP
2D 50L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D50LC21P	K2D50LC21P
2D 50L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 + Female Luer Lock + Sealing Plug	2D50LC2CP	K2D50LC2CP
2D 50L	In Let: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + 3/8" HB MPC Coupling Bodies Outlet: 50 cm ID 3/8" * OD 5/8" C-Flex 374 Tubing + 3/8" HB MPC Coupling Inserts	10 cm ID 1/4" * OD 7/16" C-Flex 374 + Needlefree Swabable Valve	2D50LC21C	K2D50LC21C

\*For more pre-designed solutions, please contact Cobetter sales or technical assistance.

# 3D Standard Bags Ordering Information I

## Connection via MPC/MPX Quick Couplers

Volume	Inlet/Outlet	Sampling	Cat. No.1(9101 Film)	Cat. No2(KA Film)
3D 50L	Inlet: 100 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies Outlet: 100 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D50LD21C	K3D50LD21C
3D 100L	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	None	3D100D2NC	K3D100D2NC
3D 100L	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D100D21C	K3D100D21C
3D 200L	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	None	3D200D2NC	K3D200D2NC
3D 200L	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Bodies Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/8" HB MPC Coupling Inserts	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D200D21C	K3D200D21C
3D 250L	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Bodies Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Inserts	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D250D21C	K3D250D21C
3D 500L	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Bodies Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Inserts	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D500D21C	K3D500D21C
3D 1000L	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Bodies Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Inserts	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D10XD21C	K3D10XD21C
3D 2000L	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Bodies Outlet: 300 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Inserts	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D20XD21C	K3D20XD21C
3D 3000L	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Bodies Outlet: 300 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1/2" HB MPX Coupling Inserts	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D20XD21C	K3D20XD21C

## Connection via Tri-clamps(TC)

Volume	Inlet/Outlet	Sampling	Cat. No.1(9101 Film)	Cat. No2(KA Film)
3D 50L	Inlet: 100 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/4" Tri-clamp(TC25) Outlet: 100 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 3/4" Tri-clamp(TC25)	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D50LD21T	K3D50LD21T
3D 100L	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25) Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25)	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D100D21S	K3D100D21S
3D 200L	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25) Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25)	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D200D21S	K3D200D21S
3D 250L	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25) Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25)	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D250D21S	K3D250D21S
3D 500L	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25) Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25)	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D500D21S	K3D500D21S
3D 1000L	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25) Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + 1 - 1/2" Tri-clamp(TC25)	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing + Needlefree Swabable Valve	3D10XD21S	K3D10XD21S

# 3D Standard Bags Ordering Information II

## Connection via AseptiQuik Connectors

Volume	Inlet/Outlet	Sampling	Cat. No.1(9101 Film)	Cat. No2(KA Film)
<b>3D 50L</b>	Inlet: 100 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 100 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing+Needlefree Swabable Valve	3D50LD21A	K3D50LD21A
<b>3D 100L</b>	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	None	3D100D21A	K3D100D21A
<b>3D 200L</b>	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing+Needlefree Swabable Valve	3D200D2NA	K3D200D2NA
<b>3D 200L</b>	Inlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 150 cm ID 3/8" * OD 3/8" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	None	3D200D21A	K3D200D21A
<b>3D 250L</b>	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing+Needlefree Swabable Valve	3D250D21A	K3D250D21A
<b>3D 500L</b>	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing+Needlefree Swabable Valve	3D500D21A	K3D500D21A
<b>3D 1000L</b>	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing+Needlefree Swabable Valve	3D10XD21A	K3D10XD21A
<b>3D 2000L</b>	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 300 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing+Needlefree Swabable Valve	3D20XD21A	K3D20XD21A
<b>3D 3000L</b>	Inlet: 150 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector Outlet: 300 cm ID 1/2" * OD 3/4" Lifemeta STD Pt-cured Silicone Tubing + AseptiQuik G Connector	20 cm ID 1/4" * OD 7/16" Lifemeta STD Pt-cured Silicone Tubing+Needlefree Swabable Valve	3D30XD21A	K3D30XD21A

## Connection C-Flex 374 Tubing

Volume	Inlet/Outlet	Sampling	Cat. No.1(9101 Film)	Cat. No2(KA Film)
<b>3D 50L</b>	Inlet: 100 cm ID 3/8" * OD 3/8" C-Flex 374 Tubing + Tubing Plug Outlet: 100 cm ID 3/8" * OD 3/8" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing +Female Luer Lock+ Tubing Plug	3D50LC2CP	K3D50LC2CP
<b>3D 100L</b>	Inlet: 150 cm ID 3/8" * OD 3/8" C-Flex 374 Tubing + Tubing Plug Outlet: 150 cm ID 3/8" * OD 3/8" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing +Female Luer Lock+ Tubing Plug	3D100C2CP	K3D100C2CP
<b>3D 200L</b>	Inlet: 150 cm ID 3/8" * OD 3/8" C-Flex 374 Tubing + Tubing Plug Outlet: 150 cm ID 3/8" * OD 3/8" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing +Female Luer Lock+ Tubing Plug	3D200C2CP	K3D200C2CP
<b>3D 250L</b>	Inlet: 150 cm ID 1/2" * OD 3/4" C-Flex 374 Tubing + Tubing Plug Outlet: 150 cm ID 1/2" * OD 3/4" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing +Female Luer Lock+ Tubing Plug	3D250C2CP	K3D250C2CP
<b>3D 500L</b>	Inlet: 150 cm ID 1/2" * OD 3/4" C-Flex 374 Tubing + Tubing Plug Outlet: 150 cm ID 1/2" * OD 3/4" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing +Female Luer Lock+ Tubing Plug	3D500C2CP	K3D500C2CP
<b>3D 1000L</b>	Inlet: 150 cm ID 1/2" * OD 3/4" C-Flex 374 Tubing + Tubing Plug Outlet: 150 cm ID 1/2" * OD 3/4" C-Flex 374 Tubing + Tubing Plug	40 cm ID 1/4" * OD 7/16" C-Flex 374 Tubing +Female Luer Lock+ Tubing Plug	3D10XC2CP	K3D10XC2CP

# Supporting Containers

- Supporting container with 2D storage bag, 3D storage bag and 3D mixing bag;
- The material is 304L, and the outer surface can be mechanical polished or electro-polished;
- The box can be square or round. Single layer or multiple layers (with stainless steel jacket for temperature control);
- Optional weighing module, temperature transmitter, bottom magnetic mixing, pH, conductivity, dissolved oxygen, TCU equipment, HMI, data storage system;
- With special polyurethane universal casters for clean areas, which can move flexibly;
- The outlet at the bottom of the box is convenient for drainage;
- The side of the project can adopt an operating door and a viewing window to facilitate observation of the liquid state



## Features

- The container to support the bag can be provided separately to match the bag of the competing bags; it can also be matched with the company's own products
- The factory has more than 3,000 m2 housing manufacturing workshops, which can efficiently provide stainless steel cabinets and support systems;
- A complete quality system can cooperate with customers to complete the calibration work of the trolley system;
- The after-sales service responds quickly, 24h response.

## Product Type

- 2D storage bag supporting tray, multi-layer tray;
- 50L-3000L liquid storage support container;
- 50L-2000L stirring support container.





# Lifecube SA Single-use Assemblies



## Quality Assurance

- ISO® 9001:2015 quality management system
- ISO Class 7 clean zones
- 100% leak testing
- ADCF raw materials
- Meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the requirement of USP <87> In Vitro Biological Reactivity Test
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics
- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals
- Verify gamma irradiation dose of sterile packaging according to ISO® 11137

## Features


- Provide common used connector assemblies
- Double-layer sterile packaging sterilized by 25-45 kGy gamma irradiation
- Provide non-sterile packaging that can be autoclaved
- Variable and flexible customized services

## Typical Applications

- Connect single-use system to stainless steel system
- System connections with different connectors
- Easy to connect with different brands bags


## Order Information

### AseptiQuik G Connectors to Tri-clamps (TC)




Cat. No.	Connector 1	Tubing	Connector 2
SAL1DR05AT	AseptiQuik G Connector	50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing	¾"Tri-clamp (TC25)
SAL1DY05AT		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05AT		50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	1-½"Tri-clamp (TC50)
SAL1DR05AS		50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DY05AS		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05AS		50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	

### CPC MPC/MPX Quick Couplers to Tri-clamps (TC)



Cat. No.	Connector 1	Tubing	Connector 2
SAL1DR05CT	MPC Coupling Bodies	50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing	¾"Tri-clamp (TC25)
SAL1DY05CT		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05CT	MPX Coupling Bodies	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	1-½"Tri-clamp (TC50)
SAL1DR05CS	MPC Coupling Bodies	50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DY05CS		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05CS	MPX Coupling Bodies	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	¾"Tri-clamp (TC25)
SAL1DR05CT01	MPC Coupling Inserts	50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DY05CT01		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05CT01	MPX Coupling Inserts	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	1-½"Tri-clamp (TC50)
SAL1DR05CS01	MPC Coupling Inserts	50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DY05CS01		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing	
SAL1DH05CS01	MPX Coupling Inserts	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing	

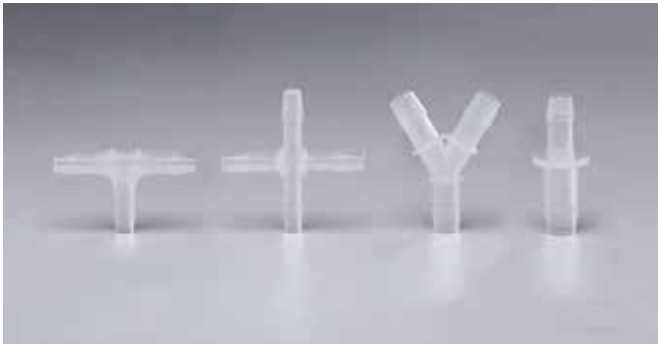
### Tee Fitting Connector



Cat. No.	Connector 1	Tubing	Connector 2
SAY1DR05CC	MPC Coupling Bodies	50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing ×3	MPC Coupling Inserts ×2
SAY1DY05CC		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing ×3	
SAY1DH05CC	MPX Coupling Bodies	50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing ×3	MPX Coupling Inserts ×2
SAY1DR05TT	¾"Tri-clamp (TC25)	50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing ×3	¾"Tri-clamp (TC25) ×2
SAY1DY05TT		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing ×3	
SAY1DH05TT		50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing ×3	
SAY1DR05SS	1-½"Tri-clamp (TC50)	50 cm ID ¼" * OD ⅞" Lifemeta™ STD Pt-cured Silicone Tubing ×3	1-½"Tri-clamp (TC50) ×2
SAY1DY05SS		50 cm ID ⅜" * OD ⅝" Lifemeta™ STD Pt-cured Silicone Tubing ×3	
SAY1DH05SS		50 cm ID ½" * OD ¾" Lifemeta™ STD Pt-cured Silicone Tubing ×3	

\* For more pre-designed solutions, please contact Cobetter sales or technical assistance.

# Lifemeta Pharmaceutical Grade Connectors



## Quality Assurance

- ISO® 9001:2015 quality management system
- ISO Class 7 clean zones
- ADCF raw materials
- Meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the requirement of USP <87> In Vitro Biological Reactivity Test
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics
- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Particulate matter in the product eluent meets the requirements in USP <788> for large volume parenterals

## Lifemeta SF Line to Line Connectors Features

- Polypropylene material. Can be sterilized by gamma irradiation at 25-45 KGY or autoclaved 30 minutes at 126°C
- Can connect with multi pipelines in different sizes of flexible tubings
- Cobetter Self-manufactured, variable and flexible customized services

## Lifemeta EC Quick Couplers Features

- No size limit. Can connect freely between Male and Female connectors
- No sterilization method limit (gamma irradiation and autoclave irradiation) . Can connect freely between Male and Female connectors
- Polysulfone material. Can be sterilized by gamma irradiation at 25-45 KGY or autoclaved 60 minutes below 132°C
- Withstand bursting pressure at room temperature from 3.09 to 4.26 Mpa
- Cobetter Self-manufactured with short delivery time

## Order Information

### Lifemeta SF Line to Line Connectors

Cat. No.	Description	Packaging
SFLTNN	1/8" Hose Barb(HB) to 3/4" Tri-clamp (TC25)	
SFLRTNN	1/4" Hose Barb(HB) to 3/4" Tri-clamp (TC25)	
SFLYTNN	3/8" Hose Barb(HB) to 3/4" Tri-clamp (TC25)	
SFLHTNN	1/2" Hose Barb(HB) to 3/4" Tri-clamp (TC25)	
SFLPTNN	Male Luer Lok to 3/4" Tri-clamp (TC25)	
SFLCTNN	Female Luer Lok to 3/4" Tri-clamp (TC25)	
SFLMTNN	3/4" Hose Barb(HB) to 3/4" Tri-clamp (TC25)	
SFLRSNN	1/4" Hose Barb(HB) to 1-1/2" Tri-clamp (TC50)	
SFLYSNN	3/8" Hose Barb(HB) to 1-1/2" Tri-clamp (TC50)	
SFLHSNN	1/2" Hose Barb(HB) to 1-1/2" Tri-clamp (TC50)	Non-sterile
SFLMSNN	3/4" Hose Barb(HB) to 1-1/2" Tri-clamp (TC50)	
SFLDSNN	1" Hose Barb(HB) to 1-1/2" Tri-clamp (TC50)	
SFLLPNN	1/8" Hose Barb(HB) to Male Luer Lok	
SFLLCNN	1/8" Hose Barb(HB) to Female Luer Lok	
SFLRPNN	1/4" Hose Barb(HB) to Male Luer Lok	
SFLRCNN	1/4" Hose Barb(HB) to Female Luer Lok	
SFYHHHNN	1/2" Hose Barb(HB)- 1/2" HB- 1/2" HB Y-Fitting	
SFTRRRNN	1/4" Hose Barb(HB)- 1/4" HB- 1/4" HB T-Fitting	
SFTYYYNN	3/8" Hose Barb(HB)- 3/8" HB- 3/8" HB T-Fitting	
SFXRRRNN	1/4" Hose Barb(HB)- 1/4" HB- 1/4" HB- 1/4" HB Cross Fitting	
SFYYYYNN	3/8" Hose Barb(HB)- 3/8" HB- 3/8" HB- 3/8" HB Cross Fitting	

### Lifemeta EC Quick Couplers

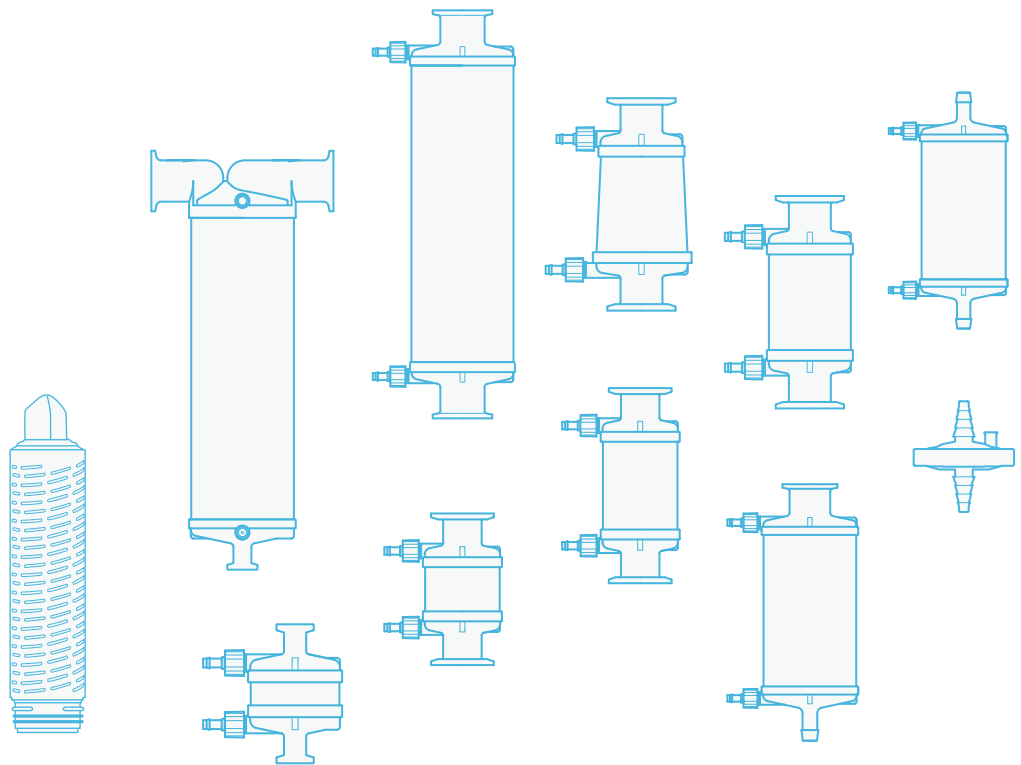
Cat. No.	Description	Packaging
ECSSMLNN	ECS Coupling Inserts-1/8" Hose Barb(HB)	
ECSSMRNN	ECS Coupling Inserts-1/4" Hose Barb(HB)	
ECSSMYNN	ECS Coupling Inserts-3/8" Hose Barb(HB)	
ECSSMPNN	ECS Sealing Plug	Non-sterile
ECSSFLNN	ECS Female Coupler-1/8" Hose Barb(HB)	
ECSSFRNN	ECS Coupling Bodies-1/4" Hose Barb(HB)	
ECSSFYNN	ECS Coupling Bodies-3/8" Hose Barb(HB)	
ECSSFPNN	ECS Sealing Cap	

\* For more pre-designed solutions, please contact Cobetter sales or technical assistance.



# Our Mission

Through Excellent Products & Sustainable Innovative Solutions,  
We Help Customers Solve Process Problems & Increase Yield.



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