cobetter®
filtration

Lifecube Single-use System



Lifecube™ Single-use System

Single-use System (SUS) is a process equipment solution that offers advantages such as lower upfront costs, no cleaning requirements, and accelerated research and production progress compared to traditional stainless steel systems. It has been widely adopted in the biopharmaceutical field for various processes ranging from cell culture to drug formulation, including vaccines, antibodies, gene therapies, and cell therapies.

Cobetter Lifecube single-use products are exclusively designed by Hangzhou Cobetter Filtration Equipment Co., Ltd. The products are manufactured following ISO 9001:2015 quality management system and adhere to GMP requirements. With 11 ISO 7 & ISO 8 production lines and one fully ISO 4.8 classified line, Cobetter can offer convenient and efficient single-use solutions that meet regulatory standards for biopharmaceutical and other industries.

Single Use System (SUS) Assembled From Various Components

- Storage Products: 2D&3D Storage Bags (Standard and customized options)
- Mixing Products: 3D Mixing Bags (Standard and customized options)
- Filling Product: Filling Bags (Customized options)
- Single-use Accessories: hose barb fittings, easy connectors, sterile connectors, tubings, sampling system, filling needles, single-use pressure sensors. (Various specifications and models available.)

Cobetter Single-use System consumables are suitable for various application scenarios in pharmaceutical manufacturing operations, providing customers with greater flexibility and convenience in adopting single-use technologies. Cobetter Lifecube single-use system simplifies processes, enhances production efficiency, streamlines validation, and ensures product safety.

Features

- The film materials exhibit low extractables, low 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
- Flexible custom size and tubings for various processes



Applications

- Buffer and media preparation, storage, and transfer
- Preparation of bioreactor feeds
- Purified components collection
- Storage for purified intermediates
- Storage and transfer for stock solution
- Drug formulation final filling

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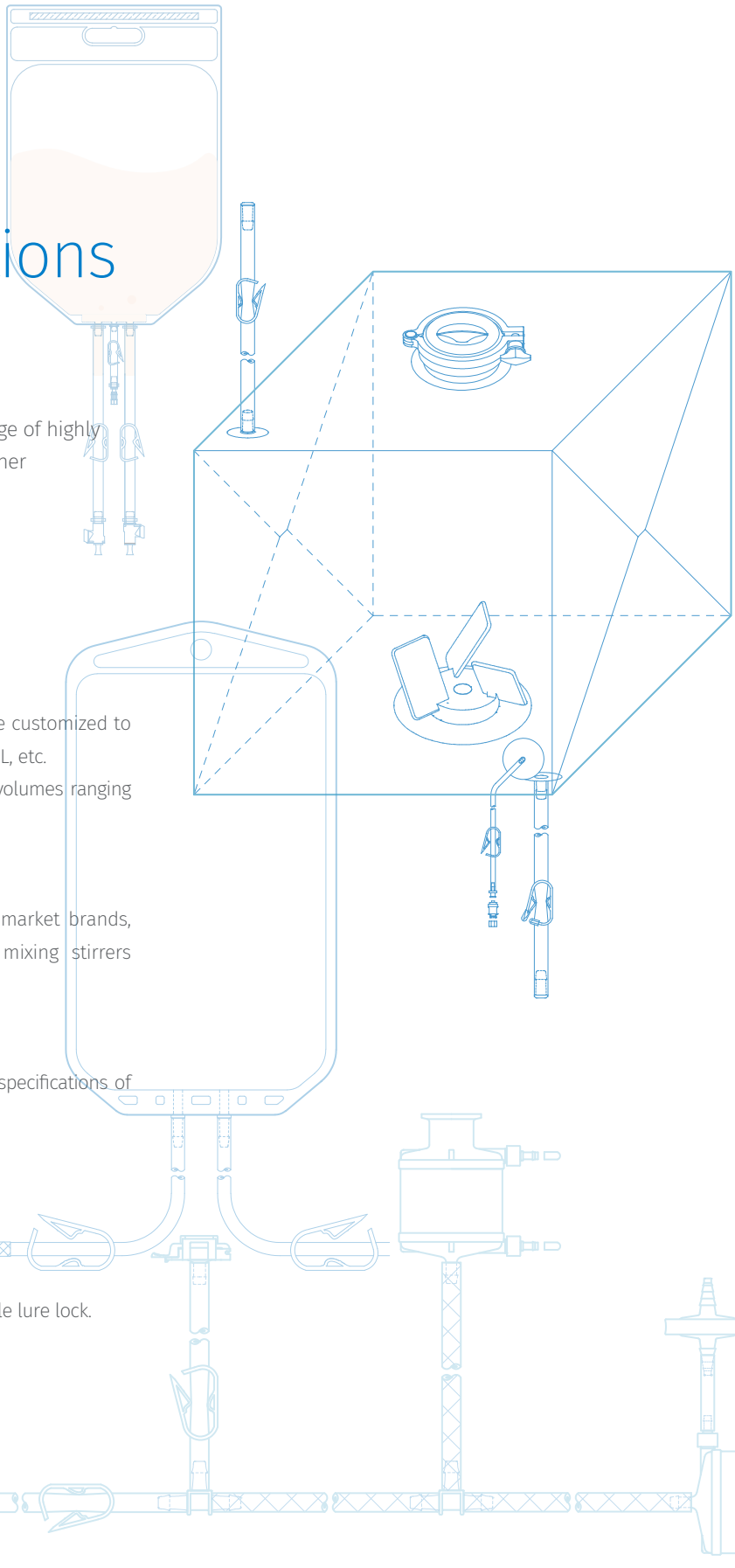
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SA Single-use Assemblies —— Customized Solutions

Customized Solutions



Cobetter Lifecube single-use system offers a wide range of highly customizable films, tubings, connectors, filters, and other components to meet diverse customer needs.

Film

Lifemeta KA film or Renolit 9101 film;

Bags

2D storage bags, in addition to standard volumes, can be customized to fit different containers in a 2.5D format, such as 60 L, 208 L, etc.
3D storage and mixing bags can be customized to cover volumes ranging from 10 L to 3000 L, fitting various container sizes.

Mixing Impeller

Compatible with Cobetter mixing systems and leading market brands, various magnetic suction and magnetic suspension mixing stirrers available.

Tubing

Ranging from 1⁄16" to 1" inner diameter, the quantities and specifications of tubing can be customized.

Connectors

Multiple types and sizes of connectors are available.

Sampling

Needlefree swabable valve, sampling plug, male and female lure lock.

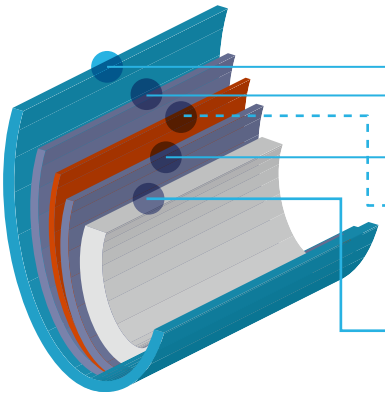
Vent Filters

Cobetter Bricap V50 / V50A / V50D / V42 available.

Capsule Filters

Cobetter Bricap C/ L/ T series.

Flim I ——Lifemeta KA Flim



30μm **HDPE** Outer layer, high density polyethylene
Protective layer

25μm **Tie** Bonding layer

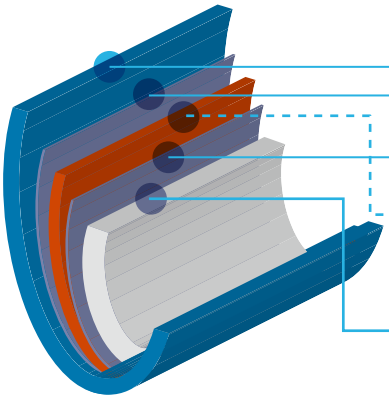
20μm **EVOH** Gas barrier layer, ethylene vinyl alcohol
Minimizes gas transfusion

230μm **ULDPE** Fluid contact layer, ultra-low density polyethylene
Low extractables & leachables,
broad chemical compatibility and biological safety.

Lifemeta KA Film Specifications

Physical Property	Value (After gamma sterilization, > 25 kGy)	Procedure
Haze	21.2 %	ASTM D1003
Specular Gloss	118 GU	ASTM D2457
Color	SCI: L 94.06, a -0.27, b 2.89 SCE: L 90.50, a -0.43, b 2.33	ASTM D6290
Transmittance	90.2 %	ASTM D1003
Tensile Strength at Break	Transverse 219 Lengthways 267, bar	ASTM D882
Elongation at Break	Transverse 380 Lengthways 420, %	ASTM D882
Elastic Modulus	Transverse 2770 Lengthways 2890, bar	ASTM D882
Brittleness Temperature by Impact	Below -70 °C	ASTM D1790
Density	0.941 g/cm^3	ASTM D792
Dart Impact	1398 g	ASTM D1709 Method B
Dart Impact	Peak load: 178 N Deflection at peak load: 13.6 mm	ASTM D3763
Tear Strength	Transverse 37.5 Transverse 34.7, N	ASTM D1004
Puncture Resistance	52.2 N	ASTM F1306
Water Vapor Transmission Rate	0.593 g/(m^2·day)(23 °C, 100% RH)	ASTM F1249
Oxygen Permeability	1.024 cm^3/(m^2·day·0.1 MPa)	ASTM D1434
Carbon Dioxide Permeability	1.455 cm^3/(m^2·day·0.1 MPa)	ASTM D1434
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 Amebocyte Lysate , USP <85>.	
USP <87> Cytotoxicity	Meet the requirement of current USP <87> Class VI, Biological Reactivity Test , In Vitro.	
USP <88> Biological Reactivity	Meet the criteria of current USP <88> Class VI, Biological Reactivity Test , In Vivo.	
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.	

Flim Ⅱ——Renolit 9101 Flim



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

Renolit 9101 Film Specifications

Physical Property	Value (After gamma sterilization, > 25 kGy)	Procedure
Haze	8.0 %	ASTM D1003
Specular Gloss	130 GU	ASTM D2457
Color	SCI: L 94.50, a -0.19, b 3.32 SCE: L 90.31, a -0.25, b 3.11	ASTM D6290
Transmittance	91.7 %	ASTM D1003
Tensile Strength at Break	Transverse 152 Lengthways 160, bar	ASTM D882
Elongation at Break	Transverse 320 Lengthways 320, %	ASTM D882
Elastic Modulus	Transverse 3370 Lengthways 3320, bar	ASTM D882
Brittleness Temperature by Impact	Below -70 °C	ASTM D1790
Density	0.923 g/cm^3	ASTM D792
Dart Impact	822 g	ASTM D1709 Method B
Dart Impact	Peak load: 150 N Deflection at peak load: 11.5 mm	ASTM D3763
Tear Strength	Transverse 30.7 Transverse 33.4, N	ASTM D1004
Puncture Resistance	39.0 N	ASTM F1306
Water Vapor Transmission Rate	0.331 g/(m^2·day)(23 °C, 100% RH)	ASTM F1249
Oxygen Permeability	0.322 cm^3/(m^2·day·0.1 MPa)	ASTM D1434
Carbon Dioxide Permeability	0.370 cm^3/(m^2·day·0.1 MPa)	ASTM D1434
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 Amebocyte Lysate , USP <85>.	
USP <87> Cytotoxicity	Meet the requirement of current USP <87> Class VI, Biological Reactivity Test, In Vitro.	
USP <88> Biological Reactivity	Meet the criteria of current USP <88> Class VI, Biological Reactivity Test, In Vivo.	
Indirect Food Additive	The fluid contact component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177–182.	
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Lifemeta™ Tubings



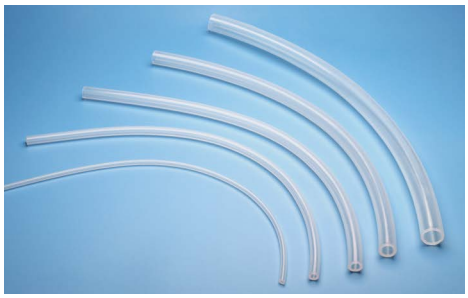
Lifemeta STT Pt-cured Silicone Tubing

Biopharmaceutical grade Pt-cured silicone tubing, can be widely used in fluid transmission in different aspects of the biopharmaceutical industry. It has a long pump life, good resilience and tear resistance, translucent color and smooth inner surface.



Lifemeta STF TPE Tubing

High-performance tubing extruded from medical-grade thermoplastic elastomer (TPE) material. Compatible with common tube sealers and aseptic tube welders, achieving excellent performance of frequent aseptic disconnection and connection of tubings.



Lifemeta ST5P Pt-cured Silicone Pump Tubing

Biopharmaceutical grade Pt-cured silicone pump tubing. Can be applied to most peristaltic pumps and has a long pump life. Excellent wear resistance reduces wear on the outer wall of the tubing and improves the overall efficiency of the filtration system.



Lifemeta ST8H High Pressure Silicone Tubing

It has very good resilience and kink resistance and typically has a higher pressure rating than softer alternatives. It is the optimal choice for Single-use applications such as TFF, virus filtration, inline integrity testing of filtration assemblies, and high-volume fluid transfer.

	Lifemeta STT	Lifemeta STF	Lifemeta ST5P	Lifemeta ST8H
Durometer Hardness (Shore A)	60±5	60±5	50±5	82±5
Appearance	Translucent	Translucent	Translucent	Translucent
Aseptic Sealing and Welding	NO	√	NO	NO
Peristaltic Pump Life	Excellent	Limited	Excellent	NO
Recommended Usage	Culture media and buffers preparation Fermentation/ Cultivation Purification	Culture media and buffers preparation Fermentation/ Cultivation Purification Aseptic Sealing and Welding	Culture media and buffers preparation Fermentation/Cultiv ation Purification Peristaltic pump transfer Final filling	Online integrity testing Large volume fluid transfer

Tubing Selection

#	ID*OD		Lifemeta STT	Lifemeta STF	Lifemeta ST5P	Lifemeta ST8H	C-Flex® 374	Pharma 50	Pharma APT
13#	1/32 * 5/32"	0.8 * 4.0 mm	●		●				●
	1/32 * 7/32"	0.8 * 5.6 mm			●				
	1/16 * 11/64"	1.2 * 4.4 mm	●		●				●
14#	1/16 * 3/16"	1.6 * 4.8 mm	●		●			●	●
119#	1/16 * 1/4"	1.6 * 6.4 mm	●		●				
19#	3/32 * 7/32"	2.4 * 5.6 mm	●		●			●	●
	3/32 * 9/32"	2.4 * 7.1 mm	●		●				●
		3.0 * 6.0 mm	●		●				
16#	1/8 * 1/4"	3.2 * 6.4 mm	●	●	●		●	●	●
120#	1/8 * 5/16"	3.2 * 8.0 mm	●		●	●			●
		3.2 * 6.8 mm			●				
15#	3/16 * 3/8"	4.8 * 9.6 mm	●	●	●	●		●	●
25#	3/16 * 5/16"	4.8 * 8.0 mm	●	●	●		●		●
		4.8 * 8.8 mm			●				
	3/16 * 7/16"	4.8 * 11.2 mm	●		●	●			
17#	1/4 * 3/8"	6.4 * 9.6 mm	●	●	●		●	●	
24#	1/4 * 7/16"	6.4 * 11.2 mm	●	●	●	●	●	●	●
26#	1/4 * 1/2"	6.4 * 12.7 mm	●	●	●	●	●	●	
35#	5/16 * 1/2"	8.0 * 12.7 mm	●	●	●	●			●
36#	3/8 * 9/16"	9.6 * 14.3 mm	●		●	●		●	●
73#	3/8 * 5/8"	9.6 * 15.9 mm	●	●	●	●	●	●	●
82#	1/2 * 3/4"	12.7 * 19.1 mm	●	●	●	●	●	●	●
	1/2 * 11/16"	12.7 * 17.5 mm	●		●	●			
	5/8 * 7/8"	15.9 * 22.2 mm	●		●	●			●
90#	3/4 * 1 "	19.1 *25.4 mm	●	●	●	●	●	●	
191#	3/4 * 1-1/8"	19.1 * 28.6 mm	●	●	●	●			
92#	1 * 1-3/8"	25.4 * 34.9 mm	●	●	●	●	●		

End Connectors

Connectors	Product
Lifemeta EC Easy Connector	
Tubing Plug	
Tri-clamp Fitting	
CPC AseptiQuik Sterile Connector	
CPC MPC(X) Quick Couplers	
CPC HFC Sterile Disconnect Couplings	

Sampling Connectors

Connectors	Product
Needlefree Swabable Valve	
Sampling Plug	
Male Lure Lock	
Female Lure Lock	
Sampling Needle	
Sampling Plug, φ20mm	



Lifecube™ AS Sampling Bags

Quality Assurance

- ISO 9001:2015 quality management system
- ISO Class 4.8 / ISO 7/ ISO 8 cleanroom production
- 100% leak testing
- ADCF raw materials, complies with FDA 21 CFR Part 177-182 (Indirect food additives)
- Meet the requirement of current USP <87> Class VI, Biological Reactivity Test, In Vitro
- Meet the criteria of current USP <88> Class VI, Biological Reactivity Test, In Vivo
- 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
- Verified gamma irradiation dose according to ISO® 11137

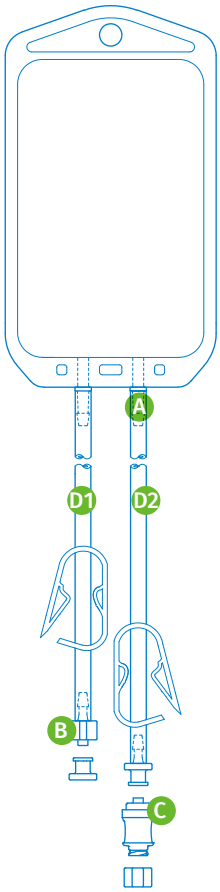
Features

- Good physical strength and great 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
- Flexible customized solutions

Applications

- Sampling with Single-use bags
- Secondary sampling from sampling bags
- Store samples

Configurable Options



A Bag Port

Tubing Bag Port



B Connectors 1

Male Luer Lock with Plug



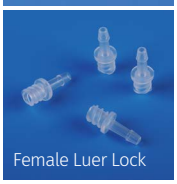
C Connectors 2

Male Luer Lock with Plug
Female Luer Lock with Plug
Needlefree Swabable Valve
Sampling Plug
Sampling Plug, Ø20mm
Sampling Needle











D1 D2 Tubing 1&2

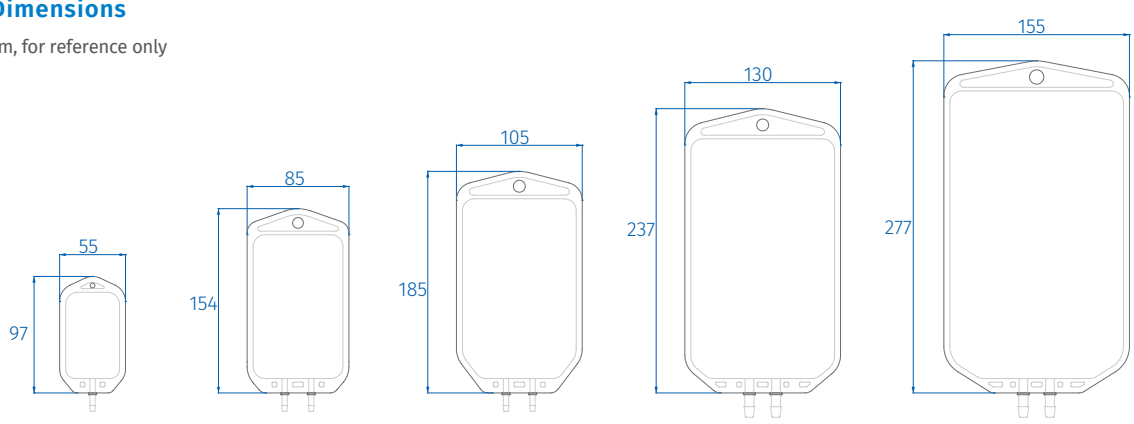
Lifemeta STT Platinum-Cured Silicone
Pharma-50 Platinum-Cured Silicone
Lifemeta STF TPE Tubing
C-Flex® 374 TPE Tubing

Bag Port Selections

Bag Ports \ Bag Volume	5 mL	50 mL	100 mL	250 mL	500 mL
⅛" HB *1	●	●	●		
¼" HB *1	●	●	●		
⅛"-⅛" HB		●	●	●	●
⅛"-¼" HB		●	●	●	●
¼"-¼" HB		●	●	●	●
⅛"-⅛"-⅛" HB		●	●	●	●
¼" -⅛"-¼" HB		●	●	●	●

Bag Dimensions

Unit: mm, for reference only



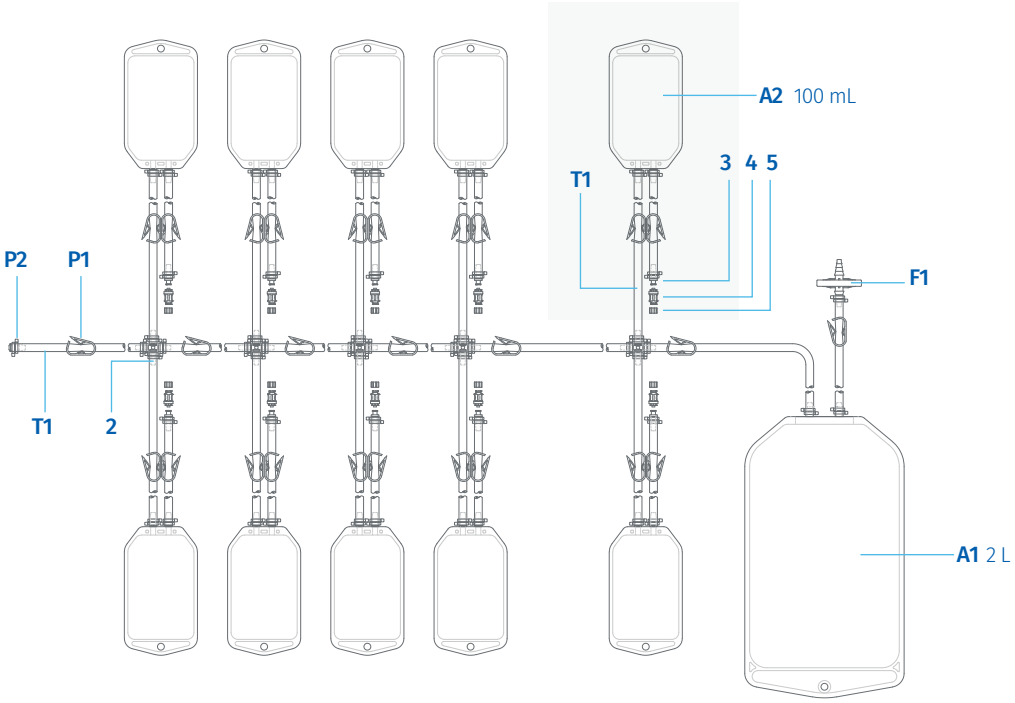
AS Sampling Bags —— Standard Options

Option 1. Lifemeta STT Pt-cured Silicone Tubing					
#	Volume	Line 1 — 20 cm	Line 2 — 20 cm	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	5 mL	⅛" * ¼" STT Pt-cured Silicone Tubing + Male Lure Lock	None	AS5ML1TLN	KAS5ML1TLN
2	50 mL	⅛" * ¼" STT Pt-cured Silicone Tubing + Male Lure Lock	⅛" * ¼" STT Pt-cured Silicone Tubing + Needlefree Swabable Valve	AS0051TLF	KAS0051TLF
3			⅛" * ¼" STT Pt-cured Silicone Tubing + Sampling Plug	AS0051TLV	KAS0051TLV
4	100 mL		⅛" * ¼" STT STT Pt-cured Silicone Tubing + Needlefree Swabable Valve	AS0101TLF	KAS0101TLF
5			⅛" * ¼" STT Pt-cured Silicone Tubing + Sampling Plug	AS0101TLV	KAS0101TLV
6	250 mL	¼" * 7/16" STT Pt-cured Silicone Tubing + Male Lure Lock	¼" * 7/16" STT STT Pt-cured Silicone Tubing + Needlefree Swabable Valve	AS0251TLF	KAS0251TLF
7			¼" * 7/16" STT Pt-cured Silicone Tubing + Sampling Plug	AS0251TLV	KAS0251TLV
8	500 mL		¼" * 7/16" STT Pt-cured Silicone Tubing + Needlefree Swabable Valve	AS0501TLF	KAS0501TLF
9			¼" * 7/16" STT Pt-cured Silicone Tubing + Sampling Plug	AS0501TLV	KAS0501TLV
Option 2. Lifemeta STF TPE Tubing					
#	Volume	Line 1 — 40 cm	Line 2 — 40 cm	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	5 mL	⅛" * ¼" STF TPE Tubing + Male Lure Lock	None	AS5ML1FLN	KAS5ML1FLN
2	50 mL	⅛" * ¼" STF TPE Tubing + Male Lure Lock	⅛" * ¼" STF TPE Tubing + Needlefree Swabable Valve	AS0051FLF	KAS0051FLF
3			⅛" * ¼" STF TPE Tubing + Sampling Plug	AS0051FLV	KAS0051FLV
4	100 mL		⅛" * ¼" STF TPE Tubing + Needlefree Swabable Valve	AS0101FLF	KAS0101FLF
5			⅛" * ¼" STF TPE Tubing + Sampling Plug	AS0101FLV	KAS0101FLV
6	250 mL	¼" * 7/16" STF TPE Tubing + Male Lure Lock	¼" * 7/16" STF TPE Tubing + Needlefree Swabable Valve	AS0251FLF	KAS0251FLF
7			¼" * 7/16" STF TPE Tubing + Sampling Plug	AS0251FLV	KAS0251FLV
8	500 mL		¼" * 7/16" STF TPE Tubing + Needlefree Swabable Valve	AS0501FLF	KAS0501FLF
9			¼" * 7/16" 7/16" STF TPE Tubing + Sampling Plug	AS0501FLV	KAS0501FLV

AS Sampling Bags —— Customized Solutions

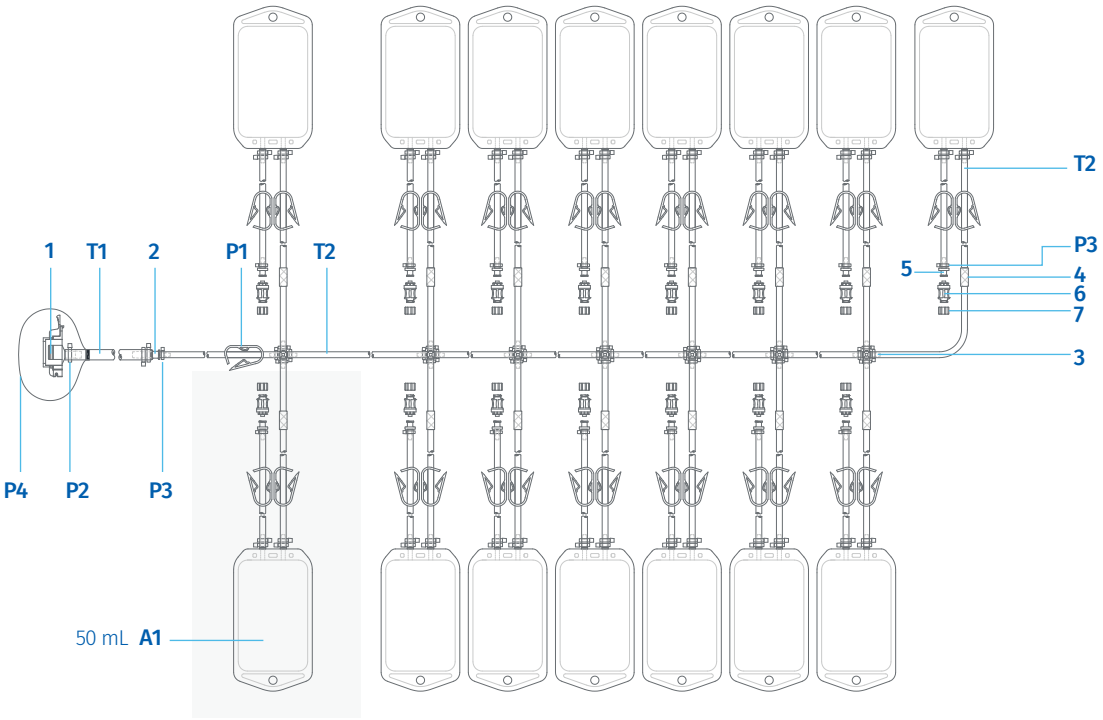
Tubing size and length, fitting type, bag volumes and other components – can be selected and customized as required.

Customized Solutions 01



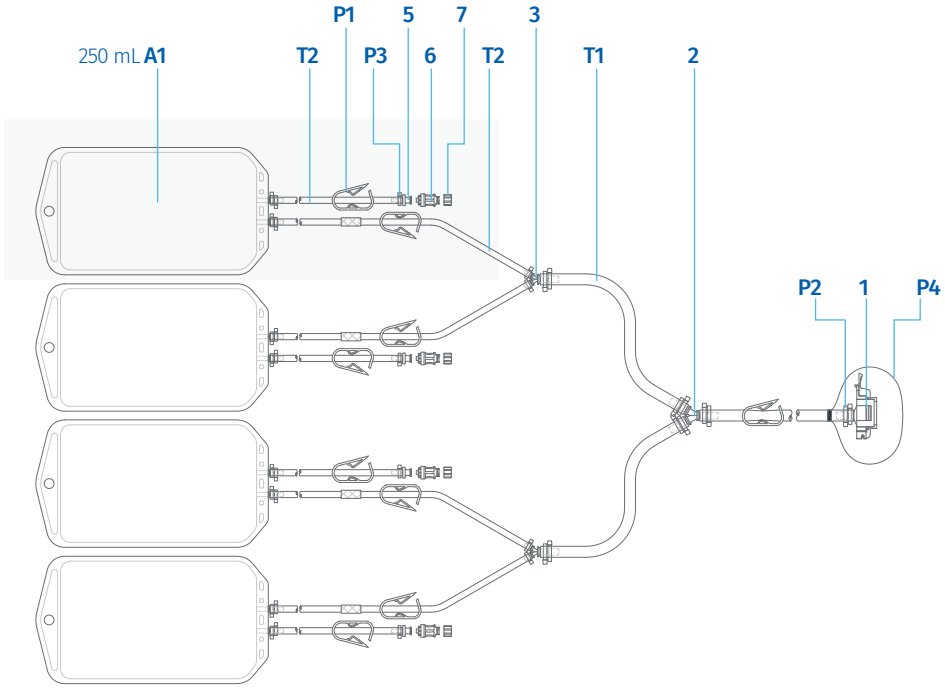
NO.	DESCRIPTION	SUM
P2	Cable Tie, 3.6 mm	A/R
P1	Clamp, OD¼"-OD½"	27 pcs
5	Luer Thread Cap	10 pcs
4	Needlefree Swabable Valve	10 pcs
3	¼"HB to Female Luer Lock	10 pcs
2	Cross Fitting, ¼"HB	5 pcs
1	Tubing Plug, ¼"HB	1 pcs
F1	Bricap® V50D Capsule Filter with Cobetter Aegivast® 0.2 μm	1 pcs
T1	Lifemeta STF TPE Tubing, ID¼"*OD7/16"	420 cm
A2	100 mL Single-use Bag with ¼"-¼" Ports	10 pcs
A1	2 L Single-use Bag with ¼"-¼" Ports	1 pcs

Customized Solutions 02



NO.	DESCRIPTION	SUM
P4	Dust Cover	1 pcs
P3	Cable Tie, 2.5 mm	44 pcs
P2	Cable Tie, 3.6 mm	A/R
P1	Clamp, OD¼"-OD½"	31 pcs
7	Luer Thread Cap	15 pcs
6	Needlefree Swabable Valve	15 pcs
5	⅛"HB to Female Luer Lock	15 pcs
4	Metallic sleeve, ID⅛"*OD¼"	15 pcs
3	Cross Fitting, ⅛"HB	7 pcs
2	Straight Fitting, ⅛"HB to ¼"HB	1 pcs
1	AseptiQuik® G Connector, ¼"HB	1 pcs
T2	Lifemeta STT Pt-cured Silicone Tubing, ID⅛"*OD¼"	525 cm
T1	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD7⁄16"	10 cm
A1	50 mL Single-use Bag with ⅛"-⅛" Ports	15 pcs

Customized Solutions 03

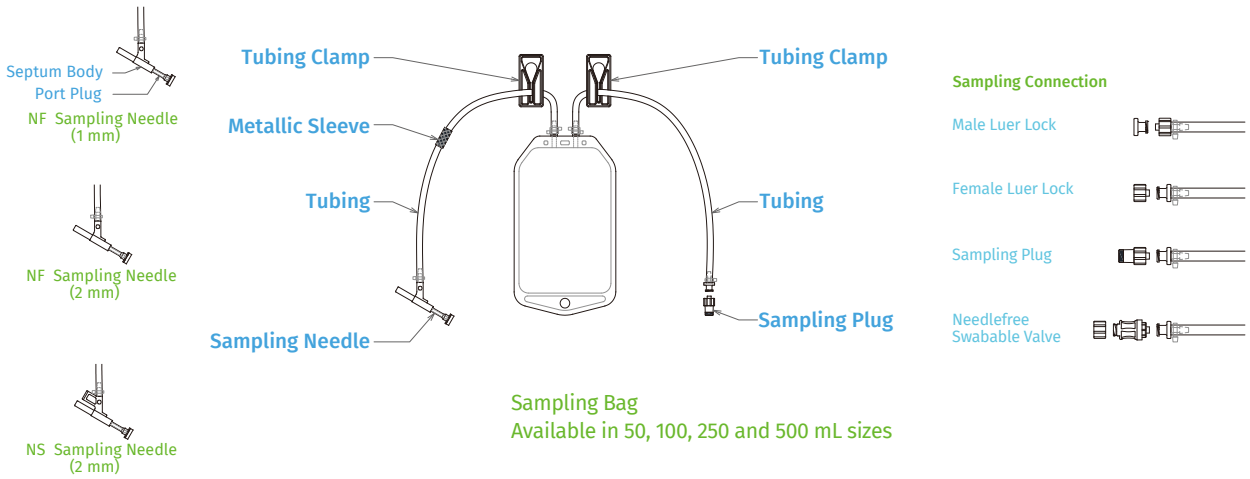


NO.	DESCRIPTION	SUM
P4	Dust Cover	1 pcs
P3	Cable Tie, 2.5 mm	8 pcs
P2	Cable Tie, 3.6 mm	A/R
P1	Clamp, OD¼"-OD½"	9 pcs
7	Luer Thread Cap	4 pcs
6	Needlefree Swabable Valve	4 pcs
5	⅛"HB to Female Luer Lock	4 pcs
4	Metallic sleeve, ID⅛"*OD¼"	4 pcs
3	Y-Fitting, ⅛"-⅛"-¼"HB	2 pcs
2	Y-Fitting, ¼"HB	1 pcs
1	AseptiQuik G Connector, ¼"HB	1 pcs
T2	Lifemeta STT Pt-cured Silicone Tubing, ID⅛"*OD¼"	100 cm
T1	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD7⁄16"	30 cm
A1	250 mL ⅛"-⅛" 250 mL Single-use Bag with ⅛"-⅛" Ports	4 pcs

Lifecube™ SA Sterile Sampling System

Lifecube SA Sterile Sampling System is flexible technology for fluids throughout sterile and aseptic processes. Lifecube™ sampling units are mainly used for liquid transmission. It is composed of different types of sampling needles and ports. The 1 mm needle used for general sampling, and 2 mm needle is usually used for cell culture sampling. The bag unit should be used with Lifemeta™ sampling holder and manual crimping tool. For single-use only, the needle may only penetrate the septum once to ensure proper sealing.

Lifecube™ Sampling Unit



Materials of Construction

Sampling Bag Fluid Contact Layer	ULDPE
Sampling Needle Septum Body	Polypropylene
Sampling Needle	Stainless steel 316 L
Port Plug	Silicone
Metallic Sleeve	Nickel plated copper
Tubing	Platinum-cured silicone / TPE

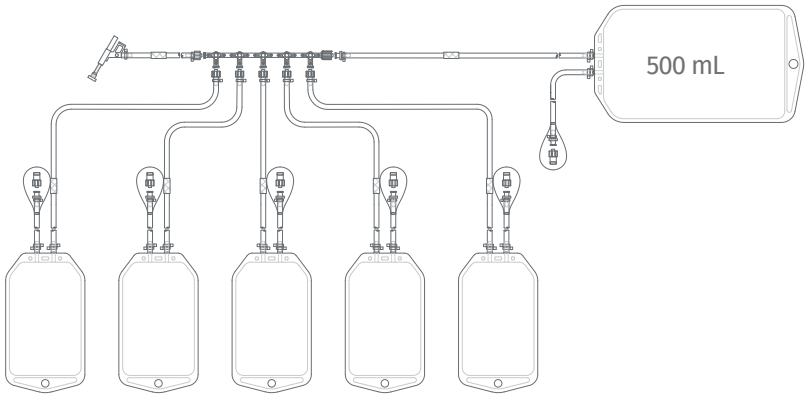
Specifications

Sampling Needle Max. Operating Pressure	0-2 bar (0-29 psi)
Temperature Range	-20 to 50°C (-4 to 122°F)
Sterilization	The sampling needle can be steamed in place cycle at up to 130°C (266 °F) once in its holder after gamma irradiated at 25-45 kGy.
Packaging	The sampling bag unit is packaged in two sealed bags

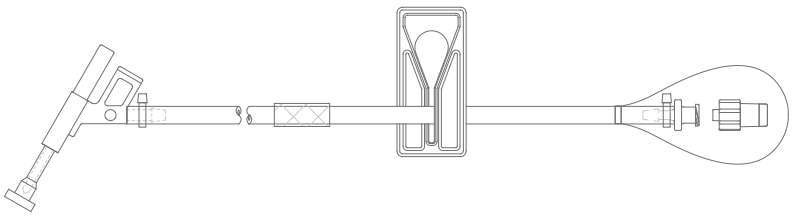
Ordering Information

Single Sampling Bag		
Volume	Cat No.	Sampling Lines
2D 50 mL	KAS0051T4VA1	Line 1 : 20 cm ID ⅛" * OD ¼" Lifemeta™ STT Pt-cured Silicone Tubing * + Metallic Sleeve + NF Sampling Needle, 1 mm Line 2 : 20 cm ID ⅛" * OD ¼" Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug **
2D 100 mL	KAS0101T4VA1	
2D 250 mL	KAS0251T4VA1	
2D 500 mL	KAS0501T4VA1	
2D 50 mL	KAS0051T4VA2	Line 1 : 20 cm ID ⅛" * OD ¼" Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + NF Sampling Needle, 2 mm Line 2 : 20 cm ID ⅛" * OD ¼" Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug
2D 100 mL	KAS0101T4VA2	
2D 250 mL	KAS0251T4VA2	
2D 500 mL	KAS0501T4VA2	
2D 50 mL	KAS0051T4V	Line 1 : 20 cm ID ⅛" * OD ¼" Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + NS Sampling Needle, 2 mm Line 2 : 20 cm ID ⅛" * OD ¼" Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug
2D 100 mL	KAS0101T4V	
2D 250 mL	KAS0251T4V	
2D 500 mL	KAS0501T4V	
2D 50 mL	KAS0051T4VA4	Line 1 : 20 cm ID 3.0mm * OD 6.0mm Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + NF Sampling Needle, 1 mm Line 2 : 20 cm ID 3.0mm * OD 6.0mm Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug
2D 100 mL	KAS0101T4VA4	
2D 250 mL	KAS0251T4VA4	
2D 500 mL	KAS0501T4VA4	
2D 50 mL	KAS0051T4VA5	Line 1 : 20 cm ID 3.0mm * OD 6.0mm Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + NF Sampling Needle, 2 mm Line 2 : 20 cm ID 3.0mm * OD 6.0mm Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug
2D 100 mL	KAS0101T4VA5	
2D 250 mL	KAS0251T4VA5	
2D 500 mL	KAS0501T4VA5	
2D 50 mL	KAS0051T4VA3	Line 1 : 20 cm ID 3.0mm * OD 6.0mm Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + NS Sampling Needle, 2 mm Line 2 : 20 cm ID 3.0mm * OD 6.0mm Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug
2D 100 mL	KAS0101T4VA3	
2D 250 mL	KAS0251T4VA3	
2D 500 mL	KAS0501T4VA3	

* TPE and other brand tubing can be selected
** Needlefree swabable valve and lure fittings can be selected for the end sampling connector



Multiple Sampling Bags		
Volume	Cat No.	Configuration
2D 50 mL	KAS0055T4V	NS Sampling Needle, 2 mm + ID ⅛" * OD ¼" Lifemeta™ STT Pt-cured Silicone Tubing 5 * Sampling Bags + 1 * 500 mL Waste Bags
2D 100 mL	KAS0105T4V	
2D 250 mL	KAS0255T4V	
2D 500 mL	KAS0505T4V	
2D 50 mL	KAS0055T4VA3	NS Sampling Needle, 2 mm + ID 3.0mm * OD 6.0mm Lifemeta™ STT Pt-cured Silicone Tubing 5 * Sampling Bags + 1 * 500 mL Waste Bags
2D 100 mL	KAS0105T4VA3	
2D 250 mL	KAS0255T4VA3	
2D 500 mL	KAS0505T4VA3	



Sampling Assemblies	
Volume	Configuration
SAL1TL054VS	NS Sampling Needle, 2 mm + 50 cm ID ⅛" * OD ¼" Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + Sampling Plug
SAL1CL104VS	NS Sampling Needle, 2 mm + 100 cm ID ⅛" * OD ¼" C-Flex 374 TPE Tubing + Metallic Sleeve + Sampling Plug
SAL1TL054VSA3	NS Sampling Needle, 2 mm + 50 cm ID 3.0mm" * OD 6.0mm Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + Sampling Plug



Lifecube™ 2D/3D Single-use Bags

Quality Assurance

- ISO 9001:2015 quality management system
- ISO Class 4.8 / ISO 7/ ISO 8 cleanroom production
- 100% leak testing
- ADCF raw materials, complies with FDA 21 CFR Part 177-182 (Indirect food additives)
- Meet the requirement of current USP <87> Class VI, Biological Reactivity Test, In Vitro
- Meet the criteria of current USP <88> Class VI, Biological Reactivity Test, In Vivo
- 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
- Verified gamma irradiation dose according to ISO® 11137

Features

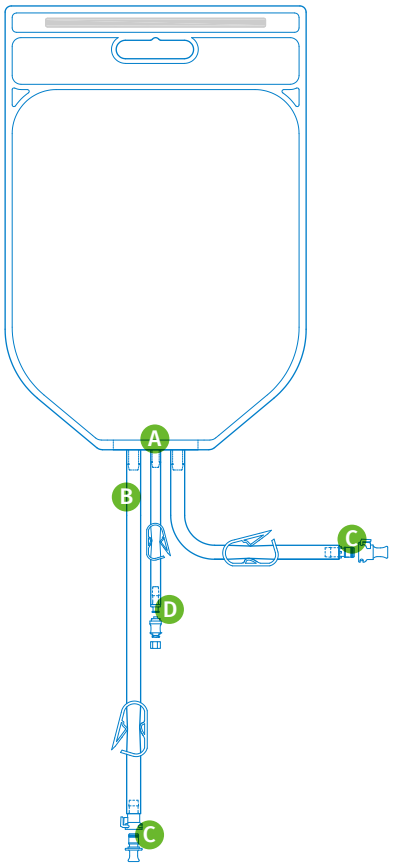
- Good physical strength and excellent biological safety
- Integrated bag body designed for Lifecube 2D Single-use bag and less residual liquid
- Double-layer sterile packaging sterilized by 25-45 kGy gamma irradiation
- Flexible customized solutions
- Various specifications and scalable

Applications

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

Lifecube™ 2D Single-use Bags

Configurable Options



A Bag Port

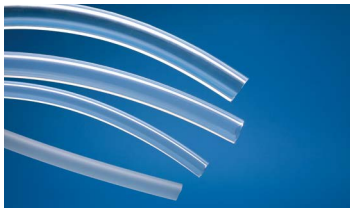
Boat Port
Tubing Bag Port





B Inlet/Outlet Tubing & Sampling Tubing

Lifemeta STT Platinum-Cured Silicone
Pharma-50 Platinum-Cured Silicone
Lifemeta STF TPE Tubing
C-Flex 374 TPE Tubing



C Inlet/Outlet Connectors

Lifemeta EC Easy Connector
¾" Tri-clamp (TC25)
1-½" Tri-clamp (TC50)
CPC AseptiQuik Connectors





D Sampling Connectors

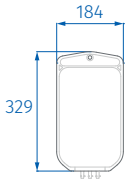
None
Needlefree Swabable Valve
Sampling Plug



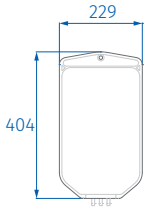


Bag Dimensions

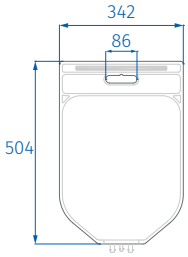
Unit: mm, for reference only



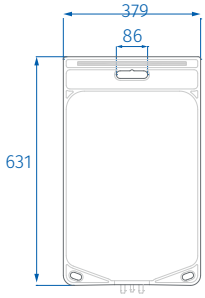
1 L



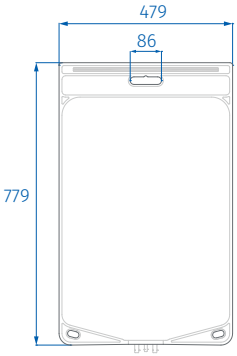
2 L



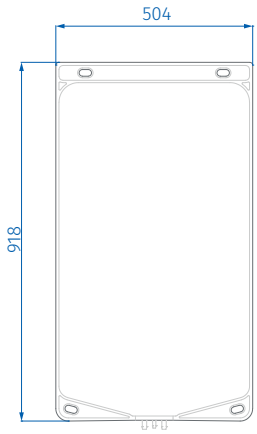
5 L



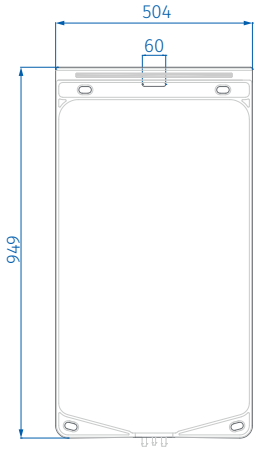
10 L



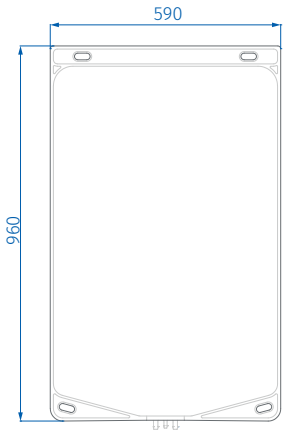
30 L



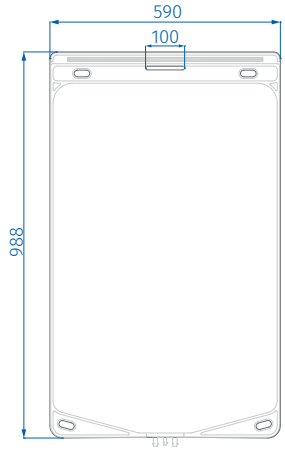
35 L



35 L



50 L



50 L

2D bags of 1 L - 50 L can be added with ⅛" HB, ¼" HB, ⅜" HB and ½" HB bag ports as required.
Please contact Cobetter sales or technicians for the specific design.

Bag Port Selections

Bag Volume / Bag Ports	250 mL	500 mL	1 L	2 L	5 L	10 L	20 L	35 L	50 L
⅛"-⅛" HB	●	●							
⅛"-¼" HB	●	●							
¼"-¼" HB	●	●	●	●	●	●	●	●	●
⅜"-⅜" HB					●	●	●	●	●
½"-½" HB					●	●	●	●	●
⅛"-⅛"-⅛" HB	●	●							
¼" -⅛"-¼" HB	●	●	●	●	●	●	●	●	●
¼" -¼"-¼" HB			●	●	●	●	●	●	●
⅜"-⅛"-⅜" HB					●	●	●	●	●
⅜"-¼"-⅜" HB					●	●	●	●	●
½" -¼"-½" HB					●	●	●	●	●

2D Single-use Bags —— Standard Options

Option 1. Lifemeta STT Pt-cured Silicone Tubing + EC Easy Connector					
#	Volume	Inlet/Outlet Lines*	Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	2D 250 mL	Line 1: 50 cm ¼" * 7/16" STT Pt-cured Silicone Tubing + ECS Female Connector + ECS Male Plug Line 2: 50 cm ¼" * 7/16" STT Pt-cured Silicone Tubing + ECS Male Connector + ECS Female Plug	None	2D025T2NK	K2D025T2NK
2			Needlefree Swabable Valve	2D025T21K	K2D025T21K
3			Sampling Plug	2D025T2VK	K2D025T2VK
4	2D 500 mL		None	2D050T2NK	K2D050T2NK
5			Needlefree Swabable Valve	2D050T21K	K2D050T21K
6			Sampling Plug	2D050T2VK	K2D050T2VK
7	2D 1 L		None	2D01LT2NK	K2D01LT2NK
8			Needlefree Swabable Valve	2D01LT21K	K2D01LT21K
9			Sampling Plug	2D01LT2VK	K2D01LT2VK
10	2D 2 L		None	2D02LT2NK	K2D02LT2NK
11			Needlefree Swabable Valve	2D02LT21K	K2D02LT21K
12			Sampling Plug	2D02LT2VK	K2D02LT2VK
13	2D 5 L	Line 1: 50 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Female Connector + ECS Male Plug Line 2: 50 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Male Connector + ECS Female Plug	None	2D05LT2NK	K2D05LT2NK
14			Needlefree Swabable Valve	2D05LT21K	K2D05LT21K
15			Sampling Plug	2D05LT2VK	K2D05LT2VK
16	2D 10 L		None	2D10LT2NK	K2D10LT2NK
17			Needlefree Swabable Valve	2D10LT21K	K2D10LT21K
18			Sampling Plug	2D10LT2VK	K2D10LT2VK
19	2D 20 L		None	2D20LT2NK	K2D20LT2NK
20			Needlefree Swabable Valve	2D20LT21K	K2D20LT21K
21			Sampling Plug	2D20LT2VK	K2D20LT2VK
22	2D 35 L		None	2D35LT2NK	K2D35LT2NK
23			Needlefree Swabable Valve	2D35LT21K	K2D35LT21K
24			Sampling Plug	2D35LT2VK	K2D35LT2VK
25	2D 50 L		None	2D50LT2NK	K2D50LT2NK
26			Needlefree Swabable Valve	2D50LT21K	K2D50LT21K
27			Sampling Plug	2D50LT2VK	K2D50LT2VK

* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 10 cm ¼" * ⅜" Cobetter Lifemeta STT Pt-cured Silicone tubing.

Option 2. Lifemeta STT Pt-cured Silicone Tubing + AseptiQuik G Sterile Connector					
#	Volume	Inlet/Outlet Lines*	Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	2D 250 mL	Line 1: 50 cm ¼" * 7/16" STT Pt-cured Silicone Tubing + AseptiQuik® G Sterile Connector Line 2: 50 cm ¼" * 7/16" STT Pt-cured Silicone Tubing + AseptiQuik® G Sterile Connector	None	2D025T2NA	K2D025T2NA
2			Needlefree Swabable Valve	2D025T21A	K2D025T21A
3			Sampling Plug	2D025T2VA	K2D025T2VA
4	2D 500 mL		None	2D050T2NA	K2D050T2NA
5			Needlefree Swabable Valve	2D050T21A	K2D050T21A
6			Sampling Plug	2D050T2VA	K2D050T2VA
7	2D 1 L		None	2D01LT2NA	K2D01LT2NA
8			Needlefree Swabable Valve	2D01LT21A	K2D01LT21A
9			Sampling Plug	2D01LT2VA	K2D01LT2VA
10	2D 2 L		None	2D02LT2NA	K2D02LT2NA
11			Needlefree Swabable Valve	2D02LT21A	K2D02LT21A
12			Sampling Plug	2D02LT2VA	K2D02LT2VA
13	2D 5 L	Line 1: 50 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + AseptiQuik® G Sterile Connector Line 2: 50 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + AseptiQuik® G Sterile Connector	None	2D05LT2NA	K2D05LT2NA
14			Needlefree Swabable Valve	2D05LT21A	K2D05LT21A
15			Sampling Plug	2D05LT2VA	K2D05LT2VA
16	2D 10 L		None	2D10LT2NA	K2D10LT2NA
17			Needlefree Swabable Valve	2D10LT21A	K2D10LT21A
18			Sampling Plug	2D10LT2VA	K2D10LT2VA
19	2D 20 L		None	2D20LT2NA	K2D20LT2NA
20			Needlefree Swabable Valve	2D20LT21A	K2D20LT21A
21			Sampling Plug	2D20LT2VA	K2D20LT2VA
22	2D 35 L		None	2D35LT2NA	K2D35LT2NA
23			Needlefree Swabable Valve	2D35LT21A	K2D35LT21A
24			Sampling Plug	2D35LT2VA	K2D35LT2VA
25	2D 50 L		None	2D50LT2NA	K2D50LT2NA
26			Needlefree Swabable Valve	2D50LT21A	K2D50LT21A
27			Sampling Plug	2D50LT2VA	K2D50LT2VA

* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 10 cm ¼" * ⅜" Cobetter Lifemeta STT Pt-cured Silicone tubing.

Option 3. Lifemeta STF TPE Tubing + Tubing Plug					
#	Volume	Inlet/Outlet Lines*	Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	2D 250 mL	Line 1: 50 cm ¼" * 7/16" STF TPE Tubing + Tubing Plug Line 2: 50 cm ¼" * 7/16" STF TPE Tubing + Tubing Plug	None	2D025F2NP	K2D025F2NP
2			Needlefree Swabable Valve	2D025F21P	K2D025F21P
3			Sampling Plug	2D025F2VP	K2D025F2VP
4	2D 500 mL		None	2D050F2NP	K2D050F2NP
5			Needlefree Swabable Valve	2D050F21P	K2D050F21P
6			Sampling Plug	2D050F2VP	K2D050F2NP
7	2D 1 L		None	2D01LF2NP	K2D01LF2NP
8			Needlefree Swabable Valve	2D01LF21P	K2D01LF21P
9			Sampling Plug	2D01LF2VP	K2D01LF2VP
10	2D 2 L		None	2D02LF2NP	K2D02LF2NP
11			Needlefree Swabable Valve	2D02LF21P	K2D02LF21P
12			Sampling Plug	2D02LF2VP	K2D02LF2VP
13	2D 5 L	Line 1: 50 cm ⅜"* ⅝" STF TPE Tubing + Tubing Plug Line 2: 50 cm ⅜"* ⅝" STF TPE Tubing + Tubing Plug	None	2D05LF2NP	K2D05LF2NP
14			Needlefree Swabable Valve	2D05LF21P	K2D05LF21P
15			Sampling Plug	2D05LF2VP	K2D05LF2VP
16	2D 10 L		None	2D10LF2NP	K2D10LF2NP
17			Needlefree Swabable Valve	2D10LF21P	K2D10LF21P
18			Sampling Plug	2D10LF2VP	K2D10LF2VP
19	2D 20 L		None	2D20LF2NP	K2D20LF2NP
20			Needlefree Swabable Valve	2D20LF21P	K2D20LF21P
21			Sampling Plug	2D20LF2VP	K2D20LF2VP
22	2D 35 L		None	2D35LF2NP	K2D35LF2NP
23			Needlefree Swabable Valve	2D35LF21P	K2D35LF21P
24			Sampling Plug	2D35LF2VP	K2D35LF2VP
25	2D 50 L		None	2D50LF2NP	K2D50LF2NP
26			Needlefree Swabable Valve	2D50LF21P	K2D50LF21P
27			Sampling Plug	2D50LF2VP	K2D50LF2VP

* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 10 cm ¼" * 7/16" Cobetter Lifemeta STF TPE Tubing.

Option 4. Lifemeta STF TPE Tubing + EC Easy Connector

#	Volume	Inlet/Outlet Lines *	Sampling **	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	2D 250 mL	Line 1: 50 cm ¼" * 7/16" STF TPE Tubing + ECS Female Connector + ECS Male Plug Line 2: 50 cm ¼" * 7/16" STF TPE Tubing + ECS Male Connector + ECS Female Plug	None	2D025F2NK	K2D025F2NK
2			Needlefree Swabable Valve	2D025F21K	K2D025F21K
3			Sampling Plug	2D025F2VK	K2D025F2VK
4	2D 500 mL		None	2D050F2NK	K2D050F2NK
5			Needlefree Swabable Valve	2D050F21K	K2D050F21K
6			Sampling Plug	2D050F2VK	K2D050F2VK
7	2D 1 L		None	2D01LF2NK	K2D01LF2NK
8			Needlefree Swabable Valve	2D01LF21K	K2D01LF21K
9			Sampling Plug	2D01LF2VK	K2D01LF2VK
10	2D 2 L		None	2D02LF2NK	K2D02LF2NK
11			Needlefree Swabable Valve	2D02LF21K	K2D02LF21K
12			Sampling Plug	2D02LF2VK	K2D02LF2VK
13	2D 5 L	Line 1: 50 cm 3/8"* 5/8" STF TPE Tubing + ECS Female Connector + ECS Male Plug Line 2: 50 cm 3/8"* 5/8" STF TPE Tubing + ECS Male Connector + ECS Female Plug	None	2D05LF2NK	K2D05LF2NK
14			Needlefree Swabable Valve	2D05LF21K	K2D05LF21K
15			Sampling Plug	2D05LF2VK	K2D05LF2VK
16	2D 10 L		None	2D10LF2NK	K2D10LF2NK
17			Needlefree Swabable Valve	2D10LF21K	K2D10LF21K
18			Sampling Plug	2D10LF2VK	K2D10LF2VK
19	2D 20 L		None	2D20LF2NK	K2D20LF2NK
20			Needlefree Swabable Valve	2D20LF21K	K2D20LF21K
21			Sampling Plug	2D20LF2VK	K2D20LF2VK
22	2D 35 L		None	2D35LF2NK	K2D35LF2NK
23			Needlefree Swabable Valve	2D35LF21K	K2D35LF21K
24			Sampling Plug	2D35LF2VK	K2D35LF2VK
25	2D 50 L		None	2D50LF2NK	K2D50LF2NK
26			Needlefree Swabable Valve	2D50LF21K	K2D50LF21K
27			Sampling Plug	2D50LF2VK	K2D50LF2VK

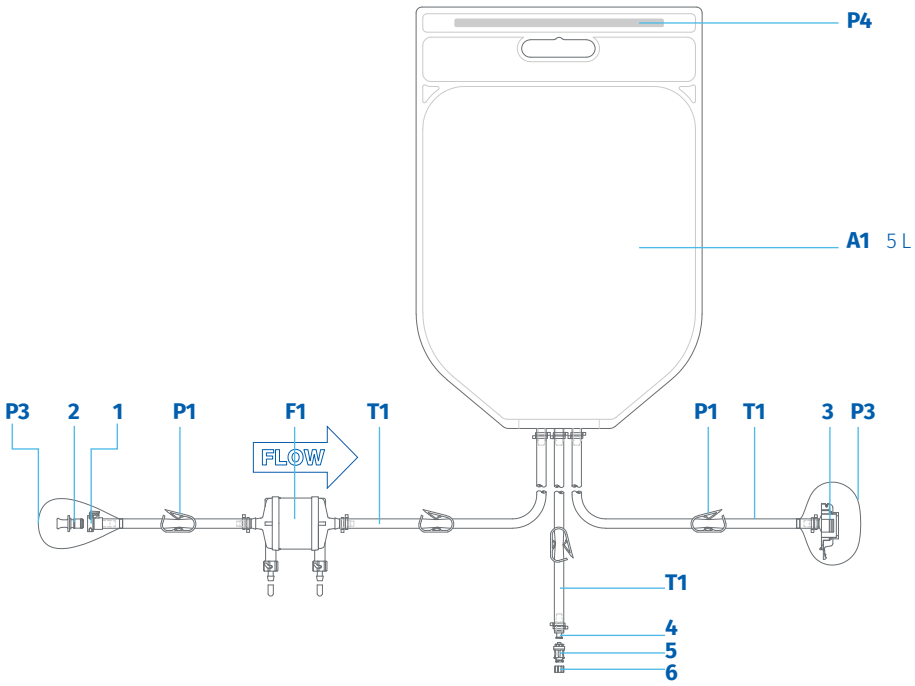
* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 10 cm ¼" * 7/16" Cobetter Lifemeta STF TPE Tubing.

2D Single-use Bags —— Customized Solutions

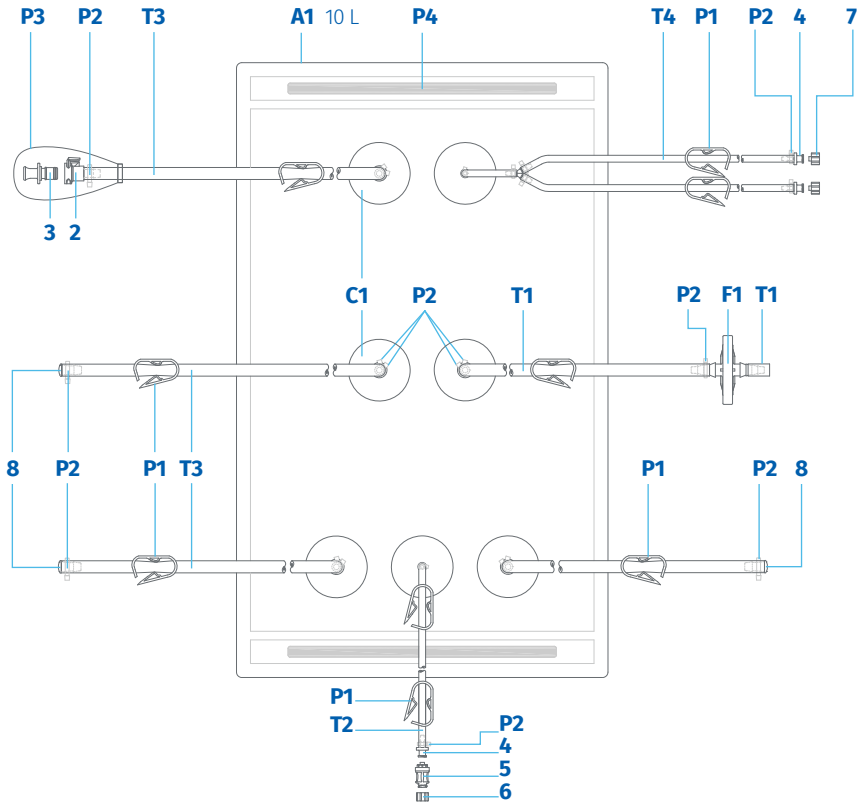
Tubing size and length, fitting type, bag volumes and other components – can be selected and customized as required.

Customized Solutions 04



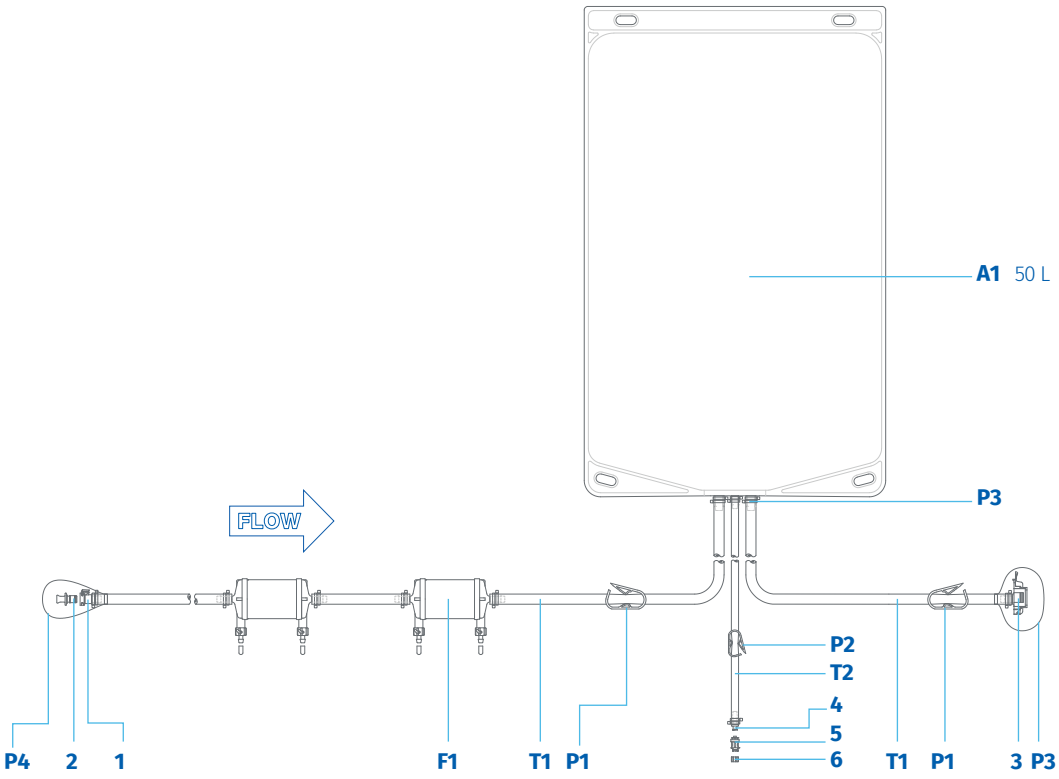
NO.	DESCRIPTION	SUM
P4	Support Rod, 250 mm	1 pcs
P3	Dust Cover	2 pcs
P2	Cable Tie, 3.6 mm	A/R
P1	Clamp, OD¼"-OD½"	4 pcs
6	Luer Thread Cap	1 pcs
5	Needlefree Swabable Valve	1 pcs
4	¼"HB to Female Luer Lock	1 pcs
3	AseptiQuik G Sterile Connector, ¼"HB	1 pcs
2	Lifemeta ECS Sealing Plug	1 pcs
1	Lifemeta ECS Coupling Bodies, ¼"HB	1 pcs
F1	Bricap C02 Capsule Filter with Cobetter Purcise SLE 0.2 μm	1 pcs
T1	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD$\frac{7}{16}$"	160 cm
A1	5 L Single-use Bag with ¼"-¼"-¼" Ports	1 pcs

Customized Solutions 05



NO.	DESCRIPTION	SUM
P4	Support Rod, 250 mm	2 pcs
P3	Dust Cover	1 pcs
P2	Cable Tie, 3.6 mm	23 pcs
P1	Clamp, OD¼"-OD½"	9 pcs
8	Tubing Plug Tubing Plug, ¼" HB	3 pcs
7	Male Luer Cap	2 pcs
6	Luer Thread Cover	1 pcs
5	Needlefree Swabable Valve	1 pcs
4	⅛" HB to Female Luer Lock	3 pcs
3	Lifemeta ECS Sealing Plug, MPC30003M	1 pcs
2	Lifemeta ECS Coupling Bodies, ¼", MPC17004T03	1 pcs
1	Y-Fitting, ⅛" HB	1 pcs
F1	Bricap V50D Capsule Filter with Cobetter Aegivast 0.2 μm	1 pcs
T4	Lifemeta STF TPE Tubing, ID⅛"*OD¼"	105 cm
T3	Lifemeta STF TPE Tubing, ID¼"*OD7⁄16"	330 cm
T2	Lifemeta STT Pt-cured Silicone Tubing, ID⅛"*OD¼"	20 cm
T1	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD7⁄16"	10 cm
C2	Bag Port, ⅛"HB	2 pcs
C1	Bag Port, ¼"HB	5 pcs
A1	10 L Single-use Bag	1 pcs

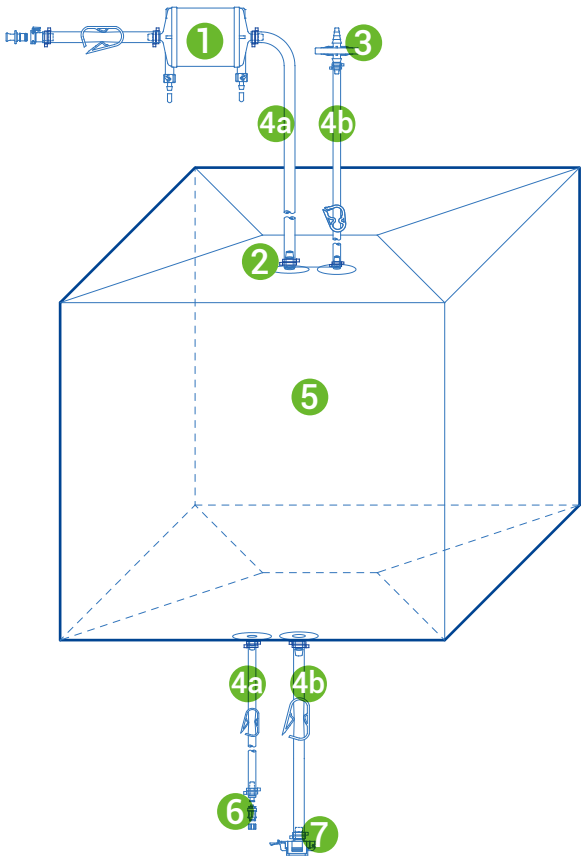
Customized Solutions 06



NO.	DESCRIPTION	SUM
P4	Dust Cover	2 pcs
P3	Cable Tie, 3.6 mm	A/R
P2	Clamp, OD¼"-OD½"	1 pcs
P1	Clamp, OD½"-OD¾"	2 pcs
6	Luer Thread Cap	1 pcs
5	Needlefree Swabable Valve	1 pcs
4	¼"HB to Female Luer Lock	1 pcs
3	AseptiQuik G Sterile Connector, ⅜"HB	1 pcs
2	Lifemeta ECS Sealing Plug	1 pcs
1	Lifemeta ECS Coupling Bodies, ⅜"HB	1 pcs
F1	Bricap C03 Capsule Filter with Cobetter Purcise SLE 0.2 μm	2 pcs
T2	Lifemeta STT Pt-cured Silicone Tubing Pt-cured Silicone Tubing, ID¼"*OD7⁄16"	10 cm
T1	Lifemeta STT Pt-cured Silicone Tubing Pt-cured Silicone Tubing, ID⅜"*OD⅝"	140 cm
A1	50 L Single-use Bag with ⅜"-¼"-⅜" Ports	1 pcs

Lifecube™ 3D Single-use Bags

Configurable Options



1 Capsule Filter

Cobetter Bricap C/L/T series, etc

2 Bag Port

Bag Port with Dimples Barb
⅛", ¼", ⅜", ½", ¾", 1"

Bag Port with Opposable Barbs
⅛", ¼", ⅜", ½"



3 Vent

Cobetter Bricap
V50/ V50A/ V50D/ V42

5 10 L - 3000 L Bag

Size can be customized according to the container.

4a 4b Inlet/Outlet Tubing

Lifemeta STT Platinum-Cured Silicone
Pharma-50 Platinum-Cured Silicone
Lifemeta STF TPE Tubing
C-Flex 374 TPE Tubing

6 Sampling Connectors

None
Needlefree swabable valve
Sampling plug

7 Inlet/Outlet Connectors

Lifemeta EC easy connector
¾" Tri-clamp (TC25)
1-½" Tri-clamp (TC50)
Tubing plug
CPC AseptiQuik connectors

3D Single-use Bags —— Standard Options

Option 1. Lifemeta STT Pt-cured Silicone Tubing + EC Easy Connector

#	Volume	Inlet/Outlet Lines*		Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	3D 50 L	Inlet	100 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Female Connector + ECS Male Plug	Needlefree Swabable Valve	3D50LT21K	K3D50LT21K
		Outlet	100 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Male Connector + ECS Female Plug			
2	3D 100 L	Inlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D100T21K	K3D100T21K
3	3D 200 L	Outlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D200T21K	K3D200T21K
4	3D 250 L	Inlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D250T21K	K3D250T21K
5	3D 500 L				3D500T21K	K3D500T21K
6	3D 1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D10XT21K	K3D10XT21K
7	3D 1500 L	Inlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D15XT21K	K3D15XT21K
8	3D 2000 L				3D20XT21K	K3D20XT21K
9	3D 3000 L	Outlet	300 cm ½" * ¾" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D30XT21K	K3D30XT21K

Option 2. Lifemeta STT Pt-cured Silicone Tubing + Tri-clamp Fitting (TC25/TC50)

#	Volume	Inlet/Outlet Lines*		Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	3D 50 L	Inlet	100 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ¾" Tri-clamp Fitting (TC25)	Needlefree Swabable Valve	3D50LT21T	K3D50LT21T
		Outlet	100 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ¾" Tri-clamp Fitting (TC25)			
2	3D 100 L	Inlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D100T21S	K3D100T21S
3	3D 200 L	Outlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D200T21S	K3D200T21S
4	3D 250 L	Inlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D250T21S	K3D250T21S
5	3D 500 L				3D500T21S	K3D500T21S
6	3D 1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D10XT21S	K3D10XT21S
7	3D 1500 L	Inlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D15XT21S	K3D15XT21S
8	3D 2000 L				3D20XT21S	K3D20XT21S
9	3D 3000 L	Outlet	300 cm ½" * ¾" STT Pt-cured Silicone Tubing + 1-½" Tri-clamp Fitting (TC50)		3D30XT21S	K3D30XT21S

Option 3. Lifemeta STT Pt-cured Silicone Tubing + AseptiQuik G Connector

#	Volume	Inlet/Outlet Lines*		Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	3D 50 L	Inlet	100 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + AseptiQuik G Connector	Needlefree Swabable Valve	3D50LT21A	K3D50LT21A
		Outlet	100 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + AseptiQuik G Connector			
2	3D 100 L	Inlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + AseptiQuik G Connector		3D100T21A	K3D100T21A
3	3D 200 L	Outlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + AseptiQuik G Connector		3D200T21A	K3D200T21A
4	3D 250 L	Inlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + AseptiQuik G Connector		3D250T21A	K3D250T21A
5	3D 500 L				3D500T21A	K3D500T21A
6	3D 1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + AseptiQuik G Connector		3D10XT21A	K3D10XT21A
7	3D 1500 L	Inlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + AseptiQuik G Connector		3D15XT21A	K3D15XT21A
8	3D 2000 L				3D20XT21A	K3D20XT21A
9	3D 3000 L	Outlet	300 cm ½" * ¾" STT Pt-cured Silicone Tubing + AseptiQuik G Connector		3D30XT21A	K3D30XT21A

* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 20 cm ¼ "*7/16" Cobetter Lifemeta STT Pt-cured Silicone tubing.

3D Single-use Bags —— Standard Options

Option 4. Lifemeta STF TPE Tubing + Tubing Plug

#	Volume	Inlet/Outlet Lines*	Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	3D 50 L	Inlet 100 cm ⅜"* ⅝" STF TPE Tubing + Tubing Plug Outlet 100 cm ⅜"* ⅝" STF TPE Tubing + Tubing Plug	Needlefree Swabable Valve	3D50LF21P	K3D50LF21P
2	3D 100 L	Inlet 150 cm ⅜"* ⅝" STF TPE Tubing + Tubing Plug Outlet 150 cm ⅜"* ⅝" STF TPE Tubing + Tubing Plug		3D100F21P	K3D100F21P
3	3D 200 L			3D200F21P	K3D200F21P
4	3D 250 L	Inlet 150 cm ½" * ¾" STF TPE Tubing + Tubing Plug Outlet 150 cm ½" * ¾" STF TPE Tubing + Tubing Plug		3D250F21P	K3D250F21P
5	3D 500 L			3D500F21P	K3D500F21P
6	3D 1000 L			3D10XF21P	K3D10XF21P
7	3D 1500 L	Inlet 150 cm ½" * ¾" STF TPE Tubing + Tubing Plug Outlet 300 cm ½" * ¾" STF TPE Tubing + Tubing Plug		3D15XF21P	K3D15XF21P
8	3D 2000 L			3D20XF21P	K3D20XF21P
9	3D 3000 L			3D30XF21P	K3D30XF21P

Option 5. Lifemeta STF TPE Tubing + EC Easy Connector

#	Volume	Inlet/Outlet Lines*	Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	3D 50 L	Inlet 100 cm ⅜"* ⅝" STF TPE Tubing + ECS Female Connector + ECS Male Plug Outlet 100 cm ⅜"* ⅝" STF TPE Tubing + ECS Male Connector + ECS Female Plug	Needlefree Swabable Valve	3D50LF21K	K3D50LF21K
2	3D 100 L	Inlet 150 cm ⅜"* ⅝" STF TPE Tubing + ECS Female Connector + ECS Male Plug Outlet 150 cm ⅜"* ⅝" STF TPE Tubing + ECS Male Connector + ECS Female Plug		3D100F21K	K3D100F21K
3	3D 200 L			3D200F21K	K3D200F21K
4	3D 250 L	Inlet 150 cm ½" * ¾" STF TPE Tubing + ECM Female Connector + ECM Male Plug Outlet 150 cm ½" * ¾" STF TPE Tubing + ECM Male Connector + ECM Female Plug		3D250F21K	K3D250F21K
5	3D 500 L			3D500F21K	K3D500F21K
6	3D 1000 L			3D10XF21K	K3D10XF21K
7	3D 1500 L	Inlet 150 cm ½" * ¾" STF TPE Tubing + ECM Female Connector + ECM Male Plug Outlet 300 cm ½" * ¾" STF TPE Tubing + ECM Male Connector + ECM Female Plug		3D15XF21K	K3D15XF21K
8	3D 2000 L			3D20XF21K	K3D20XF21K
9	3D 3000 L			3D30XF21K	K3D30XF21K

Option 6. Lifemeta STF TPE Tubing + Tri-clamp Fitting (TC25/TC50)

#	Volume	Inlet/Outlet Lines*	Sampling**	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	3D 50 L	Inlet 100 cm ⅜"* ⅝" STF TPE Tubing + ¾" Tri-clamp Fitting (TC25) Outlet 100 cm ⅜"* ⅝" STF TPE Tubing + ¾" Tri-clamp Fitting (TC25)	Needlefree Swabable Valve	3D50LF21T	K3D50LF21T
2	3D 100 L	Inlet 150 cm ⅜"* ⅝" STF TPE Tubing + 1-½" Tri-clamp Fitting (TC50) Outlet 150 cm ⅜"* ⅝" STF TPE Tubing + 1-½" Tri-clamp Fitting (TC50)		3D100F21S	K3D100F21S
3	3D 200 L			3D200F21S	K3D200F21S
4	3D 250 L	Inlet 150 cm ½" * ¾" STF TPE Tubing + 1-½" Tri-clamp Fitting (TC50) Outlet 150 cm ½" * ¾" STF TPE Tubing + 1-½" Tri-clamp Fitting (TC50)		3D250F21S	K3D250F21S
5	3D 500 L			3D500F21S	K3D500F21S
6	3D 1000 L			3D10XF21S	K3D10XF21S
7	3D 1500 L	Inlet 150 cm ½" * ¾" STF TPE Tubing + 1-½" Tri-clamp Fitting (TC50) Outlet 300 cm ½" * ¾" STF TPE Tubing + 1-½" Tri-clamp Fitting (TC50)		3D15XF21S	K3D15XF21S
8	3D 2000 L			3D20XF21S	K3D20XF21S
9	3D 3000 L			3D30XF21S	K3D30XF21S

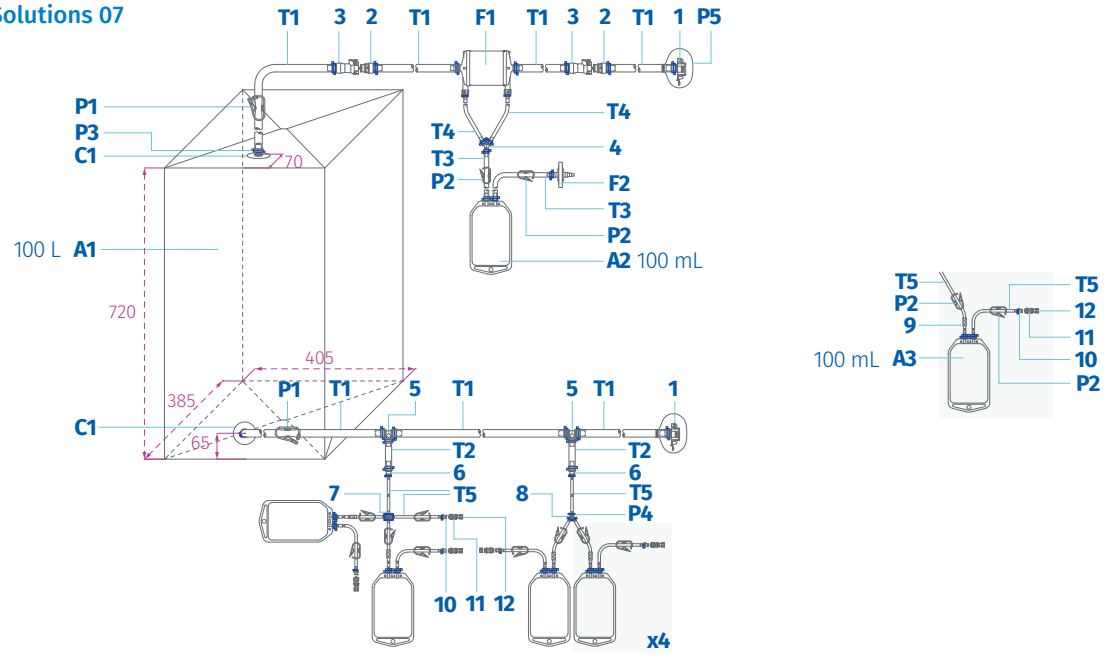
* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 40 cm ¼ "*7/16" Cobetter Lifemeta STF TPE Tubing.

3D Single-use Bags —— Customized Solutions

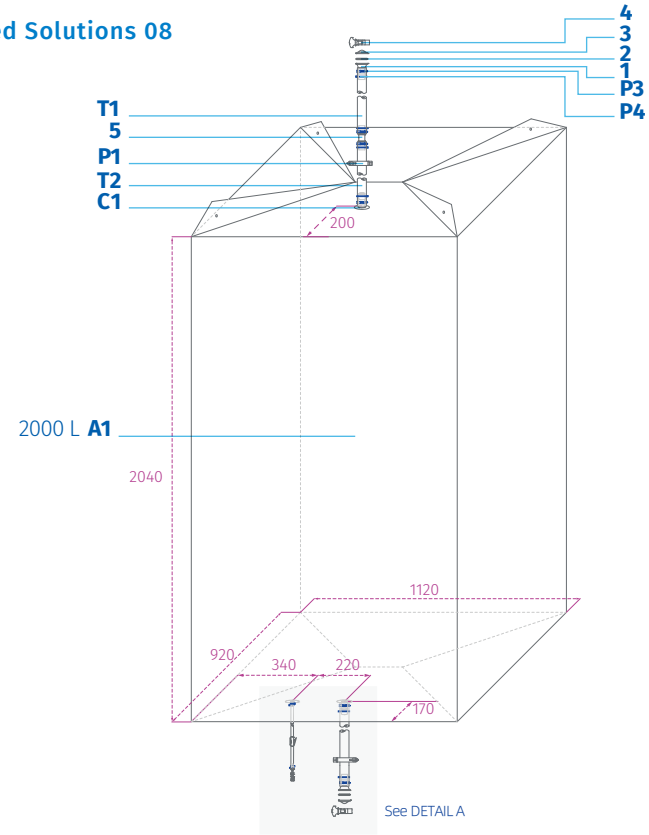
Tubing size and length, fitting type, bag volumes and other components – can be selected and customized as required.

Customized Solutions 07

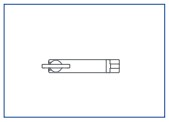


NO.	DESCRIPTION	SUM
P5	Dust Cover	2 pcs
P4	Cable Tie, 2.5 mm	16 pcs
P3	Cable Tie, 3.6 mm	A/R
P2	Clamp, OD¼"-OD½"	11 pcs
P1	Clamp, OD½"-OD¾"	2 pcs
12	Luer Thread Cap	5 pcs
11	Needlefree Swabable Valve	5 pcs
10	⅛"HB to Female Luer Lock	5 pcs
9	Metallic Sleeve, ID⅛"*OD¼"	4 pcs
8	Y-Fitting, ⅛"HB	1 pcs
7	Cross Fitting, ⅛"HB	1 pcs
6	Straight Through Tube Fitting, ⅛"HB to ⅜"HB	2 pcs
5	T-Fitting, ½"-½"-⅜"HB	2 pcs
4	Y-Fitting, ¼"HB	1 pcs
3	Coupling Bodies, ½"HB	2 pcs
2	Coupling Inserts, ½"HB	2 pcs
1	AseptiQuik G Sterile Connector, ½"HB	2 pcs
F2	Bricap V50D Capsule Filter with Cobetter Aegivast 0.2 μm	1 pcs
F1	Bricap L03 Capsule Filter with Cobetter Corevital® SMD 0.45/0.2 μm	1 pcs
T5	Lifemeta STT Pt-cured Silicone Tubing, ID⅛"*OD¼"	155 cm
T4	Lifemeta STT Pt-cured Silicone Tubing, ID$^{3}/_{16}$"*OD⅜"	20 cm
T3	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD$^{7}/_{16}$"	20 cm
T2	Lifemeta STT Pt-cured Silicone Tubing, ID⅜"*OD⅝"	12 cm
T1	Lifemeta STT Pt-cured Silicone Tubing, ID½"*OD¾"	210 cm
C1	Bag Port, ½"HB	2 pcs
A3	100 mL Single-use Bag with ⅛"-⅛" Ports	4 pcs
A2	100 mL Single-use Bag with ¼"-¼" Ports	1 pcs
A1	100 L 3D Bag	1 pcs

Customized Solutions 08

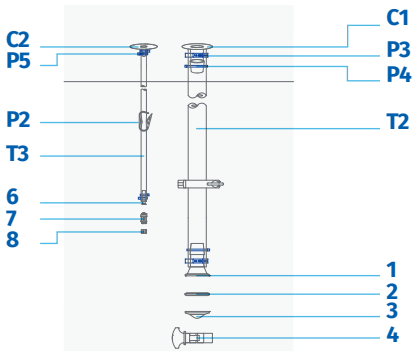


Spearate Accessory Kit



备注：此配件单独包装,置于内包装袋中。

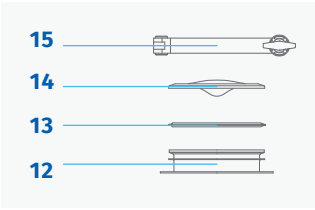
DETAIL A

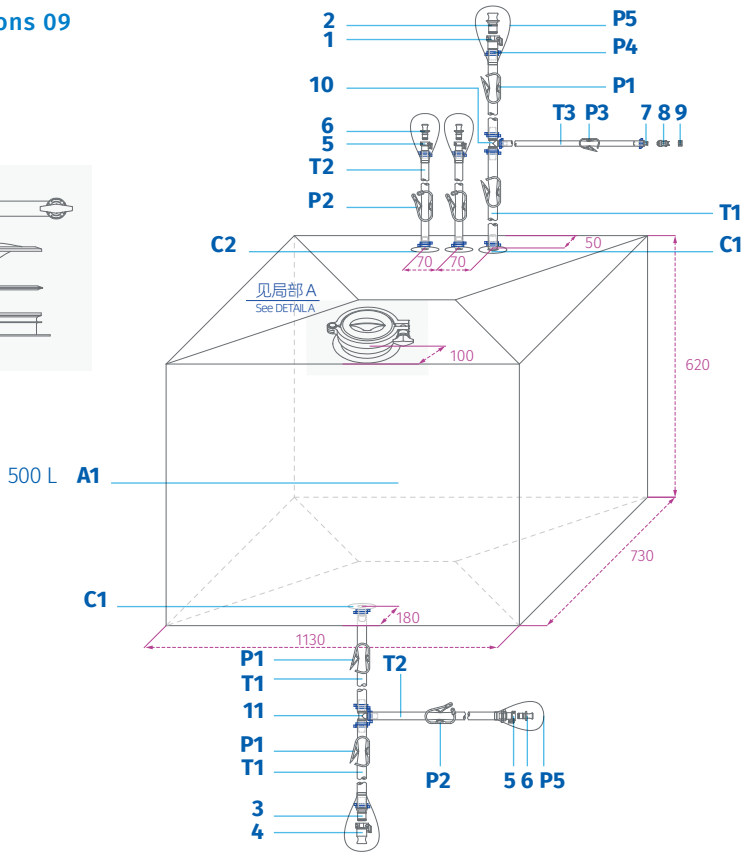


NO.	DESCRIPTION	SUM
P5	Cable Tie, 3.6 mm	A/R
P4	Large Cable Tie	6 pcs
P3	Ear Clamps, 37.6 mm	6 pcs
P2	Clamp, OD¼"-OD½"	1 pcs
P1	Clamp, WALL⅛"-WALL¼"	2 pcs
8	Luer Thread Cover	1 pcs
7	Needlefree Swabable Valve	1 pcs
6	¼" HB to Female Luer Lock	1 pcs
5	Straight Through Tube Fitting, 1"HB	1 pcs
4	TC Clamp, 1-½"TC	2 pcs
3	TC Blind Cap, 1-½"TC	2 pcs
2	Silicone Gasket, 1-½"TC	2 pcs
1	Hose Barb to Tri-clamp Fitting, 1"HB to 1-½"TC	2 pcs
T3	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD7⁄16"	30 cm
T2	Lifemeta STT Pt-cured Silicone Tubing, ID1"*OD1-⅜"	400 cm
T1	Lifemeta STF TPE Tubing, ID1"*OD1-⅜"	50 cm
C2	Bag Port, ¼"HB	1 pcs
C1	Bag Port, 1"HB	2 pcs
A1	2000 L 3D Bag	1 pcs

Customized Solutions 09

DETAIL A





NO.	DESCRIPTION	SUM
P5	Dust Cover	5 pcs
P4	Cable Tie, 3.6 mm	A/R
P3	Clamp, OD¼"-OD½"	1 pcs
P2	Clamp, OD½"-OD¾"	3 pcs
P1	Clamp, OD½"-OD1"	4 pcs
15	TC Clamp, 4"TC	1 pcs
14	TC Blind Cap, 4"TC	1 pcs
13	Silicone Gasket, 4"TC	1 pcs
12	Powder Port, 4"TC	1 pcs
11	T-Fitting, ½"-½"-⅜"HB	1 pcs
10	T-Fitting, ½"-½"-¼"HB	1 pcs
9	Luer Thread Cap	1 pcs
8	Needlefree Swabable Valve	1 pcs
7	¼"HB to Female Luer Lock	1 pcs
6	Lifemeta ECS Sealing Plug	3 pcs
5	Lifemeta ECS Coupling Bodies, ⅜"HB	3 pcs
4	Lifemeta ECM Sealing Cap	1 pcs
3	Lifemeta ECM Coupling Inserts, ½"HB	1 pcs
2	Lifemeta ECM Sealing Plug	1 pcs
1	Lifemeta ECM Coupling Bodies, ½"HB, ECMSFH	1 pcs
T3	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD$\frac{7}{16}$"	10 cm
T2	Lifemeta STT Pt-cured Silicone Tubing, ID⅜"*OD⅝"	150 cm
T1	Lifemeta STT Pt-cured Silicone Tubing, ID½"*OD¾"	360 cm
C2	Bag Port, ⅜"HB	2 pcs
C1	Bag Port, ½"HB	2 pcs
A1	500 L 3D Bag	1 pcs

Lifecube™ MIX Single-use Mixing Bags

Cobetter Lifecube single-use mixing bags offer no-clean, many specifications, pre-sterilization, east to install and flexibility of use, etc. The Lifecube Single-use Mixing bags are made of multi-layer co-extrusion film, feature good physical and chemical properties and extremely low gas permeability. Lifecube Single-use Mixing bags are suitable for a wide range of mixing steps in upstream and downstream processes.





Quality Assurance

- ISO 9001:2015 quality management system
- ISO Class 4.8 / ISO 7/ ISO 8 cleanroom production
- 100% leak testing
- ADCF raw materials, complies with FDA 21 CFR Part 177-182 (Indirect food additives)
- Meet the requirement of current USP <87> Class VI, Biological Reactivity Test, In Vitro
- Meet the criteria of current USP <88> Class VI, Biological Reactivity Test, In Vivo
- 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
- Verified gamma irradiation dose according to ISO® 11137

Features

- Magnetic suction/magnetic suspension mixing, integrated/split system, compatible with other brands;
- Fast installation, well mixing run and easy setup;
- Double-layer packaging, sterilized by 25~45 kGy gamma irradiation;
- Many specifications, meeting a variety of preparation applications;
- Customized bag sizes, flexibly match different specification of containers;
- Customized Tubings, connectors and filters ;
- Sensors can be customized to allow on-line monitoring during the process;
- Hardware with audit trail and automatic management functions available.

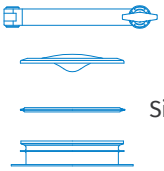
Applications

- Buffer and culture medium preparation
- Semi-finished products preparation
- Batch mixing

Configurable Options

❸ Powder Port

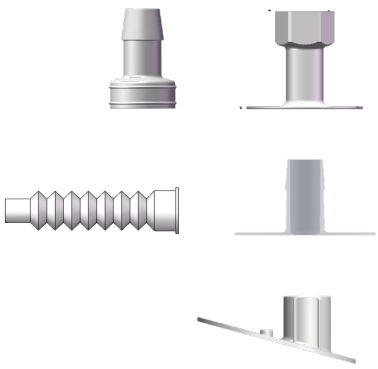
1-½"、3"、4"、 8"

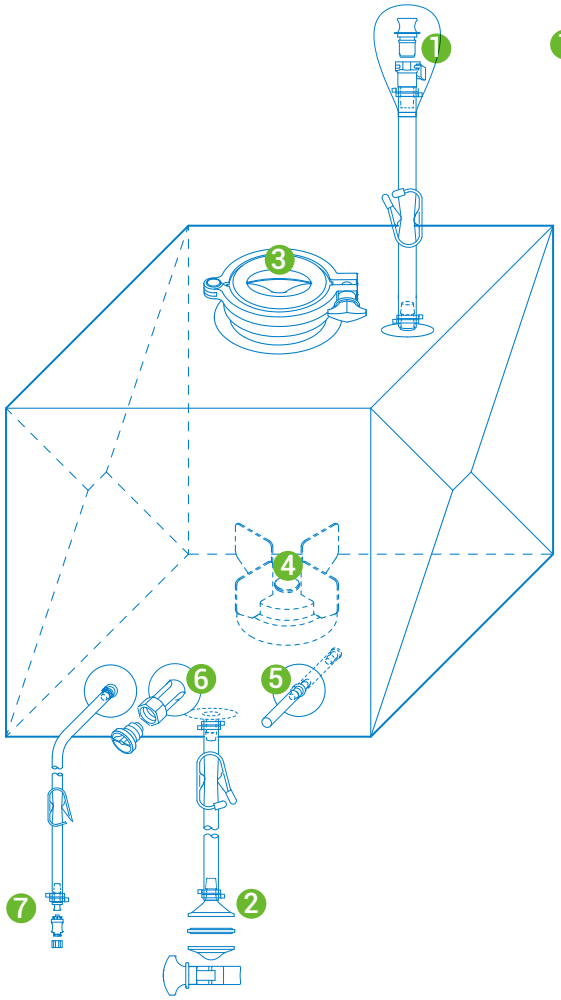


TC Clamp
TC Blind Cap
Silicone Gasket
Powder Port

❻ Electrode Port

Vertical Thread Electrode Port
Inclined Thread Electrode Port
Bioreactor Probe Sleeve
(¾"、½"HB) Bag Electrode Port
(¾"HB to PG13.5) Thread Electrode Port



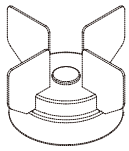


❶❷ Inlet & Outlet

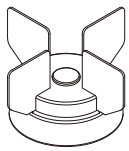
Platinum-Cured Silicone/ TPE Tubing
+ Connectors/ TC25/ TC50/ Plug

❹ Impellers

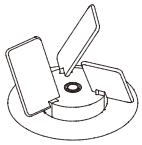
Lifecube MP series impeller
Lifecube ML series impeller
Lifecube MG series impeller
Lifecube MK series impeller
Lifecube MKP series impeller
Lifecube MS series impeller



MP series



ML series



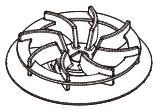
MG series



MK series



MKP series



MS series

❺ Thermal electrode sleeve

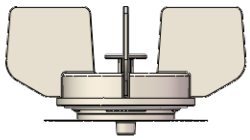
❼ Sampling Connectors

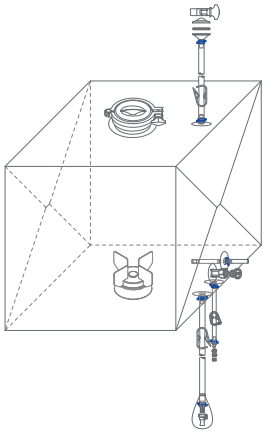
Needlefree swabable valve
Sampling plug

MIX Single-use Mixing Bags —— Standard Options

Lifecube MP Single-use Mixing Bags

Impeller	**MPM**
Materials of Construction	Main part: HDPE
	Welding pad: HDPE
	Bearing: PVDF + Silicon Nitride
	Plug: HDPE
Volume	20 L - 3000 L
Total Fluid Contact Area	716 cm^2
Main Height*	8 cm
Speed**	≤ 300 rpm





* Height from the welding plate to the top of the impeller;

** For reference only. The mixing speed is different from bag specifications, stirring volumes, solutions and brand of mixers. Please confirm the mixing speed and efficiency according to the actual situation.

Option 1. Cobetter Lifecube MP Single-use Mixing Bags

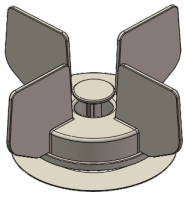
#	Volume	Inlet/Outlet Lines*		Sampling**	Powder Port	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	MP 50 L	Inlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Female Connector + ECS Male Plug	Needlefree Swabable Valve	4" TC (with Silicone Gasket, Blind Cap and Clamp)	MP50LT41Y1K	KMP50LT41Y1K
2	MP 100 L	Outlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Male Connector + ECS Female Plug			MP100T41Y1K	KMP100T41Y1K
3	MP 200 L					MP200T41Y1K	KMP200T41Y1K
4	MP 500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MP500T41H1K	KMP500T41H1K
5	MP 1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MP10XT41H1K	KMP10XT41H1K
6	MP 1500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MP15XT41H1K	KMP15XT41H1K
7	MP 2000 L					MP20XT41H1K	KMP20XT41H1K
8	MP 2500 L	Outlet	300 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MP25XT41H1K	KMP25XT41H1K
9	MP 3000 L					MP30XT41H1K	KMP30XT41H1K

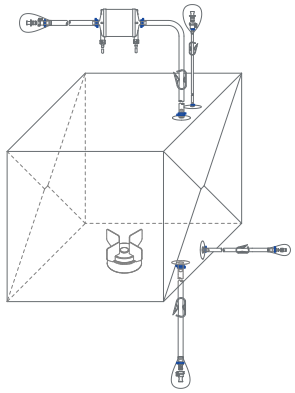
* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 20 cm ¼ "*7/16" Cobetter Lifemeta STT Pt-cured silicone tubing.

Lifecube ML Single-use Mixing Bags

Impeller	**MPL**
Materials of Construction	Main part: HDPE
	Welding pad: HDPE
	Plug: HDPE
Volume	20 L - 1000 L
Total Fluid Contact Area	706 cm^2
Main Height *	8 cm
Speed **	≤ 210 rpm





* Height from the welding plate to the top of the impeller;

** For reference only. The mixing speed is different from bag specifications, stirring volumes, solutions and brand of mixers. Please confirm the mixing speed and efficiency according to the actual situation.

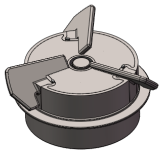
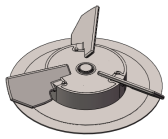
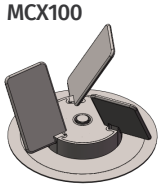
Option 2. Cobetter Lifecube ML Single-use Mixing Bags

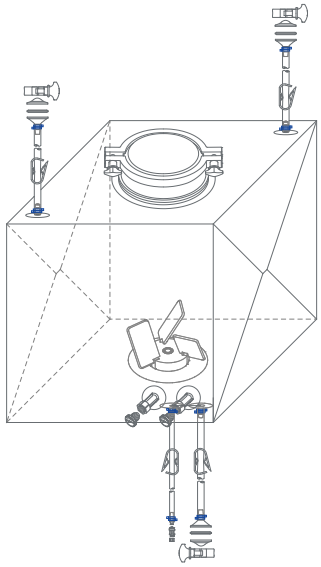
#	Volume		Inlet/Outlet Lines*	Sampling**	Powder Port	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	ML 50 L	Inlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Female Connector + ECS Male Plug	Needlefree Swabable Valve	4" TC (with Silicone Gasket, Blind Cap and Clamp)	ML50LT41Y1K	KML50LT41Y1K
2	ML100 L	Outlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Male Connector + ECS Female Plug			ML100T41Y1K	KML100T41Y1K
3	ML200 L					ML200T41Y1K	KML200T41Y1K
4	ML500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			ML500T41H1K	KML500T41H1K
5	ML1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			ML10XT41H1K	KML10XT41H1K

* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 20 cm ¼ "*7/16" Cobetter Lifemeta STT Pt-cured silicone tubing.

Lifecube MG Single-use Mixing Bags

Impeller	**MCX20** 	**MCX50** 	**MCX100** 
Materials of Construction	Main part: HDPE		
	Welding pad: HDPE		
	Bearing: Zirconia + PEEK		
Volume	20 L	50 L	100 L - 3000 L
Total Fluid Contact Area	558 cm^2	818 cm^2	1058 cm^2
Main Height *	5 cm	5 cm	12 cm
Speed**	≤ 250 rpm	≤ 250 rpm	≤ 250 rpm



* Height from the welding plate to the top of the impeller;

** For reference only. The mixing speed is different from bag specifications, stirring volumes, solutions and brand of mixers. Please confirm the mixing speed and efficiency according to the actual situation.

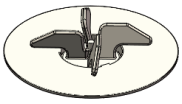
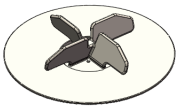
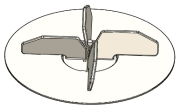
Option 3. Cobetter Lifecube MG Single-use Mixing Bags

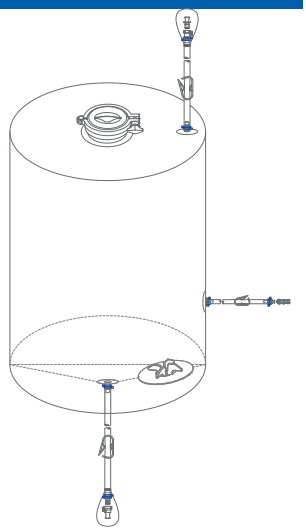
#	Volume	Inlet/Outlet Lines*		Sampling**	Powder Port	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	MG 50 L	Inlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Female Connector + ECS Male Plug	Needlefree Swabable Valve	4" TC (with Silicone Gasket, Blind Cap and Clamp)	MG50LT41Y1K	KMG50LT41Y1K
2	MG 100 L	Outlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Male Connector + ECS Female Plug			MG100T41Y1K	KMG100T41Y1K
3	MG 200 L					MG200T41Y1K	KMG200T41Y1K
4	MG 500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MG500T41H1K	KMG500T41H1K
5	MG 1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MG10XT41H1K	KMG10XT41H1K
6	MG 1500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MG15XT41H1K	KMG15XT41H1K
7	MG 2000 L					MG20XT41H1K	KMG20XT41H1K
8	MG 2500 L	Outlet	300 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MG25XT41H1K	KMG25XT41H1K
9	MG 3000 L					MG30XT41H1K	KMG30XT41H1K

* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 20 cm ¼ " * $^7/_{16}$" Cobetter Lifemeta STT Pt-cured silicone tubing.

Lifecube MK Single-use Mixing Bags

Impeller	MK11	MK12	MK13
			
Materials of Construction	Main part: PP		
	Welding pad: HDPE		
Volume	1 L - 50 L	100 L - 200 L	500 L -1000 L
Total Fluid Contact Area	155 cm^2	397 cm^2	809 cm^2
Main Height*	2 cm	3 cm	4 cm
Speed**	≤ 1000 rpm	≤ 500 rpm	≤ 250 rpm



* Height from the welding plate to the top of the impeller;

** For reference only. The mixing speed is different from bag specifications, stirring volumes, solutions and brand of mixers. Please confirm the mixing speed and efficiency according to the actual situation.

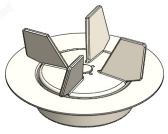
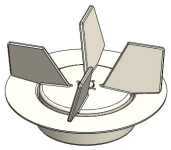
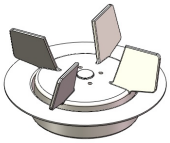
Option 4. Cobetter Lifecube MK Single-use Mixing Bags

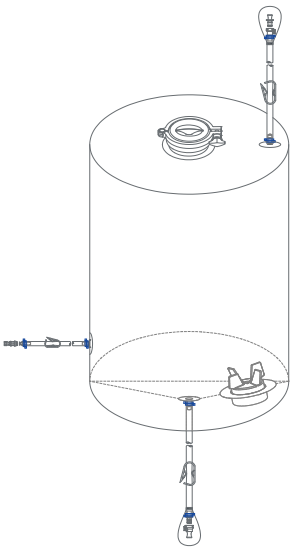
#	Volume	Inlet/Outlet Lines*		Sampling**	Powder Port	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	MK 50 L	Inlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Female Connector + ECS Male Plug	Needlefree Swabable Valve	4" TC (with Silicone Gasket, Blind Cap and Clamp)	MK50LT41Y1K	KMK50LT41Y1K
2	MK 100 L	Outlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Male Connector + ECS Female Plug			MK100T41Y1K	KMK100T41Y1K
3	MK 200 L					MK200T41Y1K	KMK200T41Y1K
4	MK 500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MK500T41H1K	KMK500T41H1K
5	MK 1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MK10XT41H1K	KMK10XT41H1K

* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 20 cm ¼ "*$^{7}/_{16}$" Cobetter Lifemeta STT Pt-cured silicone tubing.

Lifecube MKP Single-use Mixing Bags

Impeller	MK21	MK215	MK22
			
Materials of Construction	Main part: PP		
	Welding pad: HDPE		
Volume	100 L - 200 L	500 L	1000 L - 3000 L
Total Fluid Contact Area	730 cm^2	796 cm^2	1236 cm^2
Main Height*	5 cm	6 cm	6 cm
Speed**	≤ 375 rpm	≤ 375 rpm	≤ 380 rpm



* Height from the welding plate to the top of the impeller;

** For reference only. The mixing speed is different from bag specifications, stirring volumes, solutions and brand of mixers. Please confirm the mixing speed and efficiency according to the actual situation.

Option 5. Cobetter Lifecube MKP Single-use Mixing Bags

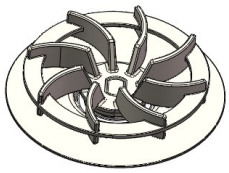
#	Volume	Inlet/Outlet Lines*		Sampling**	Powder Port	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	MKP 100 L	Inlet	150 cm ⅜"* ⅝" STT Silicone Tubing + ECS Female Connector + ECS Male Plug	Needlefree Swabable Valve	4" TC (with Silicone Gasket, Blind Cap and Clamp)	MKP100T41Y1K	KMKP100T41Y1K
2	MKP 200 L	Outlet	150 cm ⅜"* ⅝" STT Silicone Tubing + ECS Male Connector + ECS Female Plug			MKP200T41Y1K	KMKP200T41Y1K
3	MKP 500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MKP500T41H1K	KMKP500T41H1K
4	MKP 1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MKP10XT41H1K	KMKP10XT41H1K
5	MKP 1500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MKP15XT41H1K	KMKP15XT41H1K
6	MKP 2000 L					MKP20XT41H1K	KMKP20XT41H1K
7	MKP 2500 L	Outlet	300 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MKP25XT41H1K	KMKP25XT41H1K
8	MKP 3000 L					MKP30XT41H1K	KMKP30XT41H1K

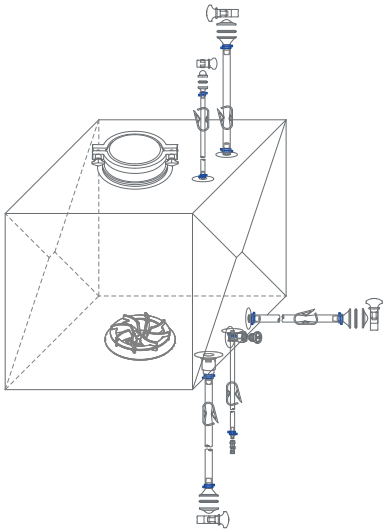
* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 20 cm ¼" * $^7/_{16}$" Cobetter Lifemeta STT Pt-cured silicone tubing.

Lifecube MS Single-use Mixing Bags

Impeller	**MS**
Materials of Construction	Main part: HDPE
	Welding pad: HDPE
Volume	50 L - 3000 L
Total Fluid Contact Area	1316 cm^2
Main Height*	4 cm
Speed**	≤ 750 rpm





* Height from the welding plate to the top of the impeller;

** For reference only. The mixing speed is different from bag specifications, stirring volumes, solutions and brand of mixers. Please confirm the mixing speed and efficiency according to the actual situation.

Option 6. Cobetter Lifecube MS Single-use Mixing Bags

#	Volume	Inlet/Outlet Lines*		Sampling**	Powder Port	Cat. No. 1 (9101 Film)	Cat. No. 2 (KA Film)
1	MS 50 L	Inlet	150 cm ⅜"* ⅝" STT Silicone Pt-cured Tubing + ECS Female Connector + ECS Male Plug	Needlefree Swabable Valve	4" TC (with Silicone Gasket, Blind Cap and Clamp)	MS50LT41Y1K	KMS50LT41Y1K
2	MS 100 L	Outlet	150 cm ⅜"* ⅝" STT Pt-cured Silicone Tubing + ECS Male Connector + ECS Female Plug			MS100T41Y1K	KMS100T41Y1K
3	MS 200 L					MS200T41Y1K	KMS200T41Y1K
4	MS 500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MS500T41H1K	KMS500T41H1K
5	MS 1000 L	Outlet	150 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MS10XT41H1K	KMS10XT41H1K
6	MS 1500 L	Inlet	150 cm½" * ¾" STT Pt-cured Silicone Tubing + ECM Female Connector + ECM Male Plug			MS15XT41H1K	KMS15XT41H1K
7	MS 2000 L					MS20XT41H1K	KMS20XT41H1K
8	MS 2500 L	Outlet	300 cm ½" * ¾" STT Pt-cured Silicone Tubing + ECM Male Connector + ECM Female Plug			MS25XT41H1K	KMS25XT41H1K
9	MS 3000 L					MS30XT41H1K	KMS30XT41H1K

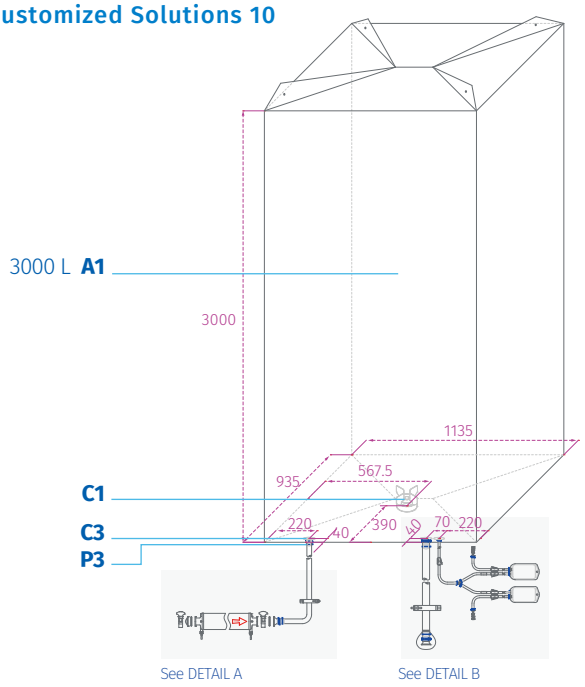
* Inlet/Outlet Lines: The size and length can be customized;

** Sampling Lines: 20 cm ¼ " * $^7/_{16}$" Cobetter Lifemeta STT Pt-cured silicone tubing.

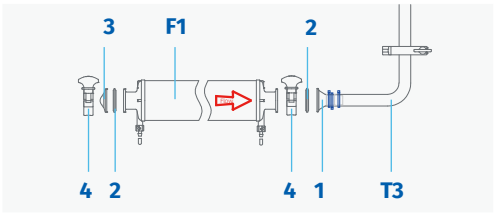
MIX Single-use Mixing Bags —— Customized Solutions

Tubing size and length, fitting type, bag volumes and other components – can be selected and customized as required.

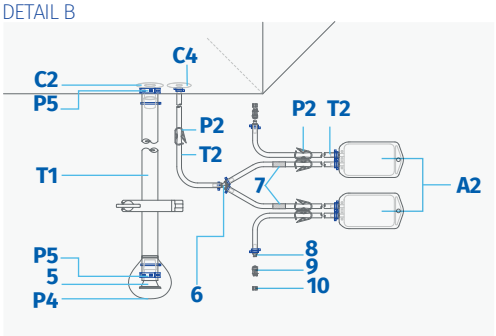
Customized Solutions 10



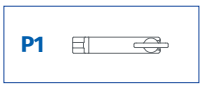
DETAIL A



DETAIL B

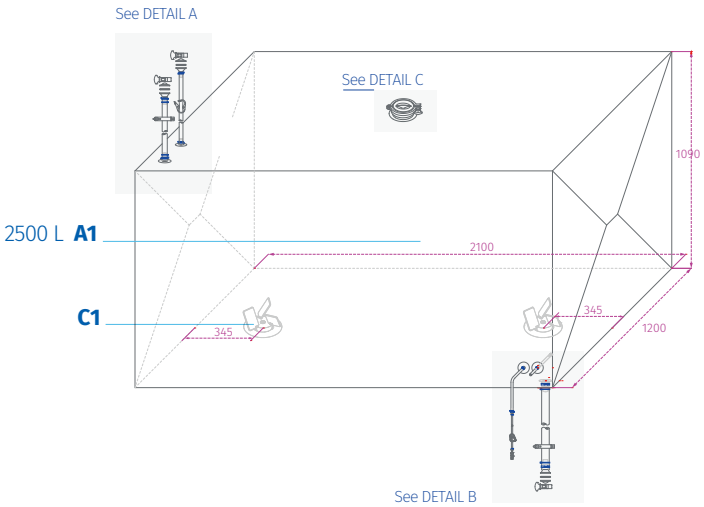


Spearate Accessory Kit

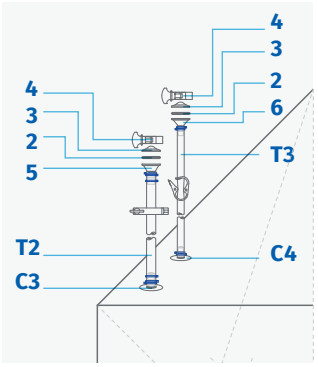


NO.	DESCRIPTION	SUM
P5	StepLess Ear Clamps, 37.6 mm	2 pcs
P4	Dust Cover	1 pcs
P3	Cable Tie, 3.6 mm	A/R
P2	Clamp, OD¼"-OD½"	5 pcs
P1	Clamp, WALL⅛"-WALL¼"	2 pcs
10	Luer Thread Cap	2 pcs
9	Needlefree Swabable Valve	2 pcs
8	¼"HB to Female Luer Lock	2 pcs
7	Metallic Sleeve, ID¼"*OD7/16"	2 pcs
6	Y-Fitting, ¼"HB	1 pcs
5	Hose Barb to Tri-clamp Fitting, 1"HB to 1-½"TC	1 pcs
4	TC Clamp, 1-½"TC	2 pcs
3	TC Blind Cap, 1-½"TC	1 pcs
2	Silicone Gasket, 1-½"TC	2 pcs
1	Hose Barb to Tri-clamp Fitting, ¾"HB to 1-½"TC	1 pcs
F1	Bricap L20 Capsule Filter with Cobetter Purcise SAF 0.45/0.2 μm	1 pcs
T3	C-Flex 374 TPE Tubing, ID¾"*OD1"	100 cm
T2	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD7/16"	80 cm
T1	Lifemeta STT Pt-cured Silicone Tubing, ID1"*OD1-⅜"	200 cm
C4	Bag Port, ¼"HB	1 pcs
C3	Bag Port, ¾"HB	1 pcs
C2	Bag Port, 1"HB	1 pcs
C1	MP Disposable Impeller Assembly	1 pcs
A2	50 mL Single-use Bag with ¼"-¼" Ports	2 pcs
A1	3000 L 3D Bag	1 pcs

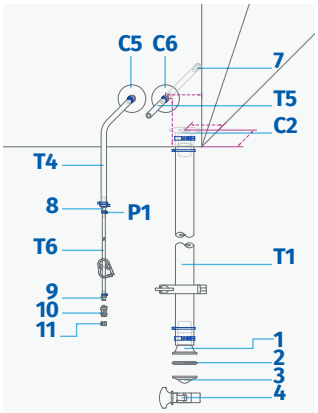
Customized Solutions 11



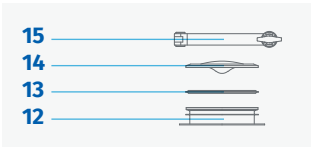
DETAIL A



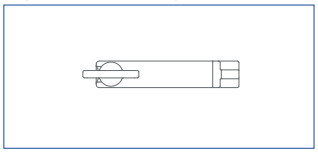
DETAIL B



DETAIL C

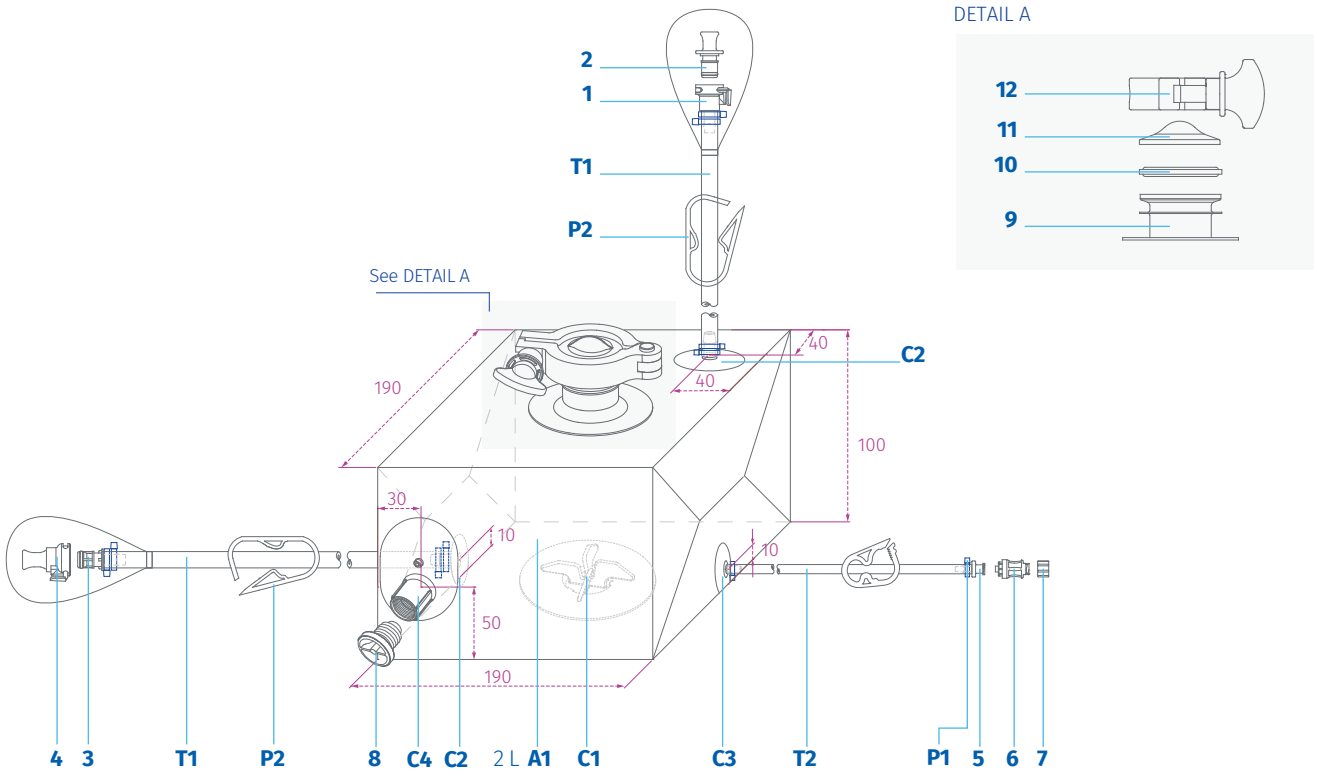


Separate Accessory Kit



NO.	DESCRIPTION	SUM
P1	Cable Tie, 2.5 mm	A/R
15	TC Clamp, 3"TC	1 pcs
14	TC Blind Cap, 3"TC	1 pcs
13	Silicone Gasket, 3"TC	1 pcs
12	Powder Port, 3"TC	1 pcs
11	Luer Thread Cap	1 pcs
10	Needlefree Swabable Valve	1 pcs
9	⅛"HB to Female Luer Lock	1 pcs
8	Straight Fitting, ⅛"HB to ¼"HB	1 pcs
7	Tubing PlugTubing Plug, ¼"HB	1 pcs
6	TC Fitting, ½"HB to 1-½"TC	1 pcs
5	TC Fitting, ¾"HB to 1-½"TC	1 pcs
4	TC Clamp, 1-½"TC	3 pcs
3	TC Blind Cap, 1-½"TC	3 pcs
2	Silicone Gasket, 1-½"TC	3 pcs
1	TC Fitting, 1"HB to 1-½"TC	1 pcs
T6	Lifemeta STF TPE Tubing TPE Tubing, ID⅛"*OD¼"	30 cm
T5	Lifemeta STT Pt-cured Silicone Tubing, ID$^{3}/_{16}$"*OD$^{5}/_{16}$"	20 cm
T4	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD$^{7}/_{16}$"	5 cm
T3	Lifemeta STF TPE Tubing TPE Tubing, ID½"*OD¾"	200 cm
T2	Lifemeta STF TPE Tubing TPE Tubing, ID¾"*OD1"	200 cm
T1	Lifemeta STSPt-cured Silicone Tubing Pt-cured Silicone Tubing, ID1"*OD1-⅜"	200 cm
C6	Opposable Barbs, ¼"HB	1 pcs
C5	Bag Port, ¼"HB	1 pcs
C4	Bag Port, ½"HB	1 pcs
C3	Bag Port, ¾"HB	1 pcs
C2	Bag Port, 1"HB	1 pcs
C1	MG Disposable Impeller Assembly	2 pcs
A1	2500 L 3D Bag	1 pcs

Customized Solutions 12



NO.	DESCRIPTION	SUM
P2	Clamp, OD≤¾"	A/R
P1	Cable Tie, 2.5 mm	A/R
12	TC Clamp, 1-½"TC	1 pcs
11	TC Blind Cap, 1-½"TC	1 pcs
10	Silicone Gasket, 1-½"TC	1 pcs
9	Powder Port, 1-½"TC	1 pcs
8	Thread Plug	1 pcs
7	Luer Thread Cap	1 pcs
6	Needlefree Swabable Valve	1 pcs
5	⅛"HB to Female Luer Lock	1 pcs
4	Lifemeta ECS Sealing Cap	1 pcs
3	Lifemeta ECS Coupling Inserts, ¼"HB	1 pcs
2	Lifemeta ECS Sealing Plug	1 pcs
1	Lifemeta ECS Coupling Bodies, ¼"HB	1 pcs
T2	Lifemeta STT Pt-cured Silicone Tubing, ID⅛"*OD¼"	20 cm
T1	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD7/16"	200 cm
C4	PG13.5Bag Port with PG13.5 Thread	1 pcs
C3	Bag Port, ⅛"HB, Ø40 mm	1 pcs
C2	Bag Port, ¼"HB, Ø40 mm	2 pcs
C1	MK Disposable Impeller Assembly, Ø94 mm	1 pcs
A1	2 L 3D Bag	1 pcs

Lifecube™ SA Single-use Assemblies

Cobetter Lifecube SA Single-use Assemblies features high flexibility, and have a variety of tubings and connectors to achieve a wide range of applications. It can be customized according to different processes. Reduce the cost of cleaning and validation, and suitable for fluid transfer in various stages of biomanufacturing processes.



Quality Assurance

- ISO 9001:2015 quality management system
- ISO Class 4.8 / ISO 7 cleanroom production
- 100% leak testing
- ADCF raw materials, complies with FDA 21 CFR Part 177-182 (Indirect food additives)
- Meet the requirement of current USP <87> Class VI, Biological Reactivity Test, In Vitro
- Meet the criteria of current USP <88> Class VI, Biological Reactivity Test, In Vivo
- 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
- Verified gamma irradiation dose according to ISO® 11137

Features

- Commen connectors and tubing assembly available;
- Double-layer packaging, sterilized by 25~45 kGy gamma irradiation;
- Non-sterile packaging, autoclavable;
- Flexible customized solutions

Applications

- Fluid transfer between Single-use and stainless steel system
- Fluid Transfer between different types of connectors
- Upstream and downstream system switching
- PUPSIT system (Pre-Use and Post-Sterilization Integrity Test)
- Connect and transfer of Single-use products from different brands
- Temporary feeding and filtration, etc.

Lifecube Single-use Transfer Sets

The length of TPE tube can be varied between 50 cm, 100 cm and 250 cm, the inner diameter of the tube can be varied between ⅛" and ½", and the end plug is convenient for welding.



Option 1. Single-use Extension Transfer Sets with TPE Tubing Plugs

Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAL01001	Plug	⅛" * ¼" C-Flex 374	50 cm	Plug
SAL01002			100 cm	
SAL01003			250 cm	
SAL01004	Plug	¼" * 7/16" C-Flex 374	50 cm	Plug
SAL01005			100 cm	
SAL01006			250 cm	
SAL01007	Plug	⅜" * ⅝" C-Flex 374	50 cm	Plug
SAL01008			100 cm	
SAL01009			250 cm	
SAL01010	Plug	½" * ¾" C-Flex 374	50 cm	Plug
SAL01011			100 cm	
SAL01012			250 cm	
SAL01013	Plug	⅛" * ¼" Lifemeta STF	50 cm	Plug
SAL01014			100 cm	
SAL01015			250 cm	
SAL01016	Plug	¼" * 7/16" Lifemeta STF	50 cm	Plug
SAL01017			100 cm	
SAL01018			250 cm	
SAL01019	Plug	⅜" * ⅝" Lifemeta STF	50 cm	Plug
SAL01020			100 cm	
SAL01021			250 cm	
SAL01022	Plug	½" * ¾" Lifemeta STF	50 cm	Plug
SAL01023			100 cm	
SAL01024			250 cm	

Lifecube Single-use Transfer Sets

The length of Lifemeta STT Pt-cured Silicone Tubing can be varied between 50 cm, 100 cm and 250 cm, the inner diameter of the tube can be varied between ⅛ "and ½". Both end connectors can be EC easy connectors to achieve quick connection.



Option 2. Single-use Extension Transfer Sets with Lifemeta STT Pt-cured Silicone Tubing and EC Connectors

Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAL02019	ECS Female	⅛" * ¼" Lifemeta STT	50 cm	ECS Male
SAL02020			100 cm	
SAL02021			250 cm	
SAL02022	ECS Female	¼" * 7/16" Lifemeta STT	50 cm	ECS Male
SAL02023			100 cm	
SAL02024			250 cm	
SAL02025	ECS Female	⅜" * ⅝" Lifemeta STT	50 cm	ECS Male
SAL02026			100 cm	
SAL02027			250 cm	
SAL02028	ECM Female	½" * ¾" Lifemeta STT	50 cm	ECM Male
SAL02029			100 cm	
SAL02030			250 cm	
SAL02031	ECS Male	⅛" * ¼" Lifemeta STT	100 cm	TC 25
SAL02032		¼" * 7/16" Lifemeta STT	100 cm	
SAL02033		⅜" * ⅝" Lifemeta STT	100 cm	
SAL02034	ECS Male	¼" * 7/16" Lifemeta STT	100 cm	TC 50
SAL02035		⅜" * ⅝" Lifemeta STT	100 cm	
SAL02036	ECM Male	½" * ¾" Lifemeta STT	100 cm	TC 50

Lifecube Single-use Transfer Sets

The length of Lifemeta STT PT-Cured Silicone Tubing can be varied between 50 cm, 100 cm and 250 cm, the inner diameter of the tube can be varied between ⅛ "and ½". One end of the tubing can be equipped with tubing plugs, EC easy connectors, TC fittings (TC25/TC50), and the other end can be sterile connectors, which is suitable for aseptic connections in non-A-level environment to ensure the safety of sterile feed liquid.



Option 3. Single-use Extension Transfer Sets with Lifemeta STT Pt-cured Silicone Tubing and AseptiQuik® G Sterile Connectors

Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAL03019	AseptiQuik G Sterile Connectors	¼" * 7⁄16" Lifemeta STT	50 cm	ECS Male
SAL03020			100 cm	
SAL03021			250 cm	
SAL03022		⅜" * ⅝" Lifemeta STT	50 cm	
SAL03023			100 cm	
SAL03024			250 cm	
SAL03025		½" * ¾" Lifemeta STT	50 cm	ECM Male
SAL03026			100 cm	
SAL03027			250 cm	
SAL03028		¼" * 7⁄16" Lifemeta STT	100 cm	TC 25
SAL03029		⅜" * ⅝" Lifemeta STT	100 cm	
SAL03030		¼" * 7⁄16" Lifemeta STT	100 cm	TC 50
SAL03031		⅜" * ⅝" Lifemeta STT	100 cm	
SAL03032		½" * ¾" Lifemeta STT	100 cm	

Single-use Reduction Transfer Sets

The length of TPE tubing can be varied between 50 cm and 100 cm, the inner diameter of the tube can be varied between ¼ "and ½". The end connectors can be tubing plugs, EC easy connectors, TC fittings (TC25/TC50), which is suitable for connection with different diameters with high flexibility.



Option 1. with Tubing Plugs				
Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAL04001	Plug	⅛" * ¼" to ¼" * 7⁄16", C-Flex 374	50 cm x 2	Plug
SAL04002		⅛" * ¼" to ¼" * 7⁄16", C-Flex 374	100 cm x 2	
SAL04003		⅛" * ¼" to ⅜" * ⅝", C-Flex 374	50 cm x 2	
SAL04004		⅛" * ¼" to ⅜" * ⅝", C-Flex 374	100 cm x 2	
SAL04005		¼" * 7⁄16" to ⅜" * ⅝", C-Flex 374	50 cm x 2	
SAL04006		¼" * 7⁄16" to ⅜" * ⅝", C-Flex 374	100 cm x 2	
SAL04007		¼" * 7⁄16" to ½" * ¾", C-Flex 374	50 cm x 2	
SAL04008		¼" * 7⁄16" to ½" * ¾", C-Flex 374	100 cm x 2	
SAL04009		⅜" * ⅝" to ½" * ¾", C-Flex 374	50 cm x 2	
SAL04010		⅜" * ⅝" to ½" * ¾", C-Flex 374	100 cm x 2	
SAL04031	Plug	⅛" * ¼" to ¼" * 7⁄16", Lifemeta STF	50 cm x 2	Plug
SAL04032		⅛" * ¼" to ¼" * 7⁄16", Lifemeta STF	100 cm x 2	
SAL04033		⅛" * ¼" to ⅜" * ⅝", Lifemeta STF	50 cm x 2	
SAL04034		⅛" * ¼" to ⅜" * ⅝", Lifemeta STF	100 cm x 2	
SAL04035		¼" * 7⁄16" to ⅜" * ⅝", Lifemeta STF	50 cm x 2	
SAL04036		¼" * 7⁄16" to ⅜" * ⅝", Lifemeta STF	100 cm x 2	
SAL04037		¼" *7⁄16" to ½" * ¾", Lifemeta STF	50 cm x 2	
SAL04038		¼" * 7⁄16" to ½" * ¾", Lifemeta STF	100 cm x 2	
SAL04039		⅜" * ⅝" to ½" * ¾", Lifemeta STF	50 cm x 2	
SAL04040		⅜" * ⅝" to ½" * ¾", Lifemeta STF	100 cm x 2	

Option 2. with EC Connectors					
	Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
	SAL04011	ECS Female	1/8" * 1/4" to 1/4" * 7/16", C-Flex 374	50 cm x 2	ECS Male
	SAL04012		1/8" * 1/4" to 1/4" * 7/16", C-Flex 374	100 cm x 2	
	SAL04013		1/8" * 1/4" to 3/8" * 5/8", C-Flex 374	50 cm x 2	
	SAL04014		1/8" * 1/4" to 3/8" * 5/8", C-Flex 374	100 cm x 2	
	SAL04015		1/4" * 7/16" to 3/8" * 5/8", C-Flex 374	50 cm x 2	
	SAL04016		1/4" * 7/16" to 3/8" * 5/8", C-Flex 374	100 cm x 2	
	SAL04017		1/4" * 7/16" to 1/2" * 3/4", C-Flex 374	50 cm x 2	ECM Male
	SAL04018		1/4" * 7/16" to 1/2" * 3/4", C-Flex 374	100 cm x 2	
	SAL04019		3/8" * 5/8" to 1/2" * 3/4", C-Flex 374	50 cm x 2	
	SAL04020		3/8" * 5/8" to 1/2" * 3/4", C-Flex 374	100 cm x 2	
	SAL04041	ECS Female	1/8" * 1/4" to 1/4" * 7/16", Lifemeta STF	50 cm x 2	ECS Male
	SAL04042		1/8" * 1/4" to 1/4" * 7/16", Lifemeta STF	100 cm x 2	
	SAL04043		1/8" * 1/4" to 3/8" * 5/8", Lifemeta STF	50 cm x 2	
	SAL04044		1/8" * 1/4" to 3/8" * 5/8", Lifemeta STF	100 cm x 2	
	SAL04045		1/4" * 7/16" to 3/8" * 5/8", Lifemeta STF	50 cm x 2	
	SAL04046		1/4" * 7/16" to 3/8" * 5/8", Lifemeta STF	100 cm x 2	
	SAL04047		1/4" * 7/16" to 1/2" * 3/4", Lifemeta STF	50 cm x 2	ECM Male
	SAL04048		1/4" * 7/16" to 1/2" * 3/4", Lifemeta STF	100 cm x 2	
	SAL04049		3/8" * 5/8" to 1/2" * 3/4", Lifemeta STF	50 cm x 2	
	SAL04050		3/8" * 5/8" to 1/2" * 3/4", Lifemeta STF	100 cm x 2	

Option 3. with TC Connectors

	Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
	SAL04021	TC 25	1/8" * 1/4" to 1/4" * 7/16", C-Flex 374	50 cm x 2	TC 50
	SAL04022		1/8" * 1/4" to 1/4" * 7/16", C-Flex 374	100 cm x 2	
	SAL04023		1/8" * 1/4" to 3/8" * 5/8", C-Flex 374	50 cm x 2	
	SAL04024		1/8" * 1/4" to 3/8" * 5/8", C-Flex 374	100 cm x 2	
	SAL04025		1/4" * 7/16" to 3/8" * 5/8", C-Flex 374	50 cm x 2	
	SAL04026		1/4" * 7/16" to 3/8" * 5/8", C-Flex 374	100 cm x 2	
	SAL04027		1/4" * 7/16" to 1/2" * 3/4", C-Flex 374	50 cm x 2	
	SAL04028		1/4" * 7/16" to 1/2" * 3/4", C-Flex 374	100 cm x 2	
	SAL04029		3/8" * 5/8" to 1/2" * 3/4", C-Flex 374	50 cm x 2	
	SAL04030		3/8" * 5/8" to 1/2" * 3/4", C-Flex 374	100 cm x 2	
	SAL04051	TC 25	1/8" * 1/4" to 1/4" * 7/16", Lifemeta STF	50 cm x 2	TC 50
	SAL04052		1/8" * 1/4" to 1/4" * 7/16", Lifemeta STF	100 cm x 2	
	SAL04053		1/8" * 1/4" to 3/8" * 5/8", Lifemeta STF	50 cm x 2	
	SAL04054		1/8" * 1/4" to 3/8" * 5/8", Lifemeta STF	100 cm x 2	
	SAL04055		1/4" * 7/16" to 3/8" * 5/8", Lifemeta STF	50 cm x 2	
	SAL04056		1/4" * 7/16" to 3/8" * 5/8", Lifemeta STF	100 cm x 2	
	SAL04057		1/4" * 7/16" to 1/2" * 3/4", Lifemeta STF	50 cm x 2	
	SAL04058		1/4" * 7/16" to 1/2" * 3/4", Lifemeta STF	100 cm x 2	
	SAL04059		3/8" * 5/8" to 1/2" * 3/4", Lifemeta STF	50 cm x 2	
	SAL04060		3/8" * 5/8" to 1/2" * 3/4", Lifemeta STF	100 cm x 2	

Single-use Pump Tubing Sets

25 cm TPE tubing + 50 cm ST5P pump tubing +25 cm TPE tubing, the inner diameter of the tubing can be selected as ⅛"-½ ". The end connectors can be tubing plugs, EC easy connectors, which is suitable for the fluid through peristaltic pump. The connecting of two TPE tubing at each side can achieve quick welding.



Option 1. with Tubing Plugs

Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAL05001	Plug	⅛" * ¼"	25 cm C-Flex 374 to 50 cm Pharma APT to 25 cm C-Flex 374	Plug
SAL05002		¼" * 7⁄16"	25 cm C-Flex 374 to 50 cm Pharma APT to 25 cm C-Flex 374	
SAL05003		⅜" * ⅝"	25 cm C-Flex 374 to 50 cm Pharma APT to 25 cm C-Flex 374	
SAL05004		½" * ¾"	25 cm C-Flex 374 to 50 cm Pharma APT to 25 cm C-Flex 374	
SAL05009	Plug	⅛" * ¼"	25 cm Lifemeta STF to 50 cm Pharma APT to 25 cm Lifemeta STF	Plug
SAL05010		¼" * 7⁄16"	25 cm Lifemeta STF to 50 cm Pharma APT to 25 cm Lifemeta STF	
SAL05011		⅜" * ⅝"	25 cm Lifemeta STF to 50 cm Pharma APT to 25 cm Lifemeta STF	
SAL05012		½" * ¾"	25 cm Lifemeta STF to 50 cm Pharma APT to 25 cm Lifemeta STF	
SAL05017	Plug	⅛" * ¼"	25 cm Lifemeta STF to 50 cm Lifemeta ST5P to 25 cm Lifemeta STF	Plug
SAL05018		¼" * 7⁄16"	25 cm Lifemeta STF to 50 cm Lifemeta ST5P to 25 cm Lifemeta STF	
SAL05019		⅜" * ⅝"	25 cm Lifemeta STF to 50 cm Lifemeta ST5P to 25 cm Lifemeta STF	
SAL05020		½" * ¾"	25 cm Lifemeta STF to 50 cm Lifemeta ST5P to 25 cm Lifemeta STF	



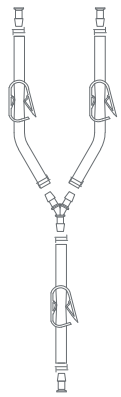
Option 2. with EC Connectors

Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAL05005	ECS Female	⅛" * ¼"	25 cm C-Flex 374 to 50 cm Pharma APT to 25 cm C-Flex 374	ECS Male
SAL05006		¼" * 7⁄16"	25 cm C-Flex 374 to 50 cm Pharma APT to 25 cm C-Flex 374	
SAL05007		⅜" * ⅝"	25 cm C-Flex 374 to 50 cm Pharma APT to 25 cm C-Flex 374	
SAL05008	ECM Female	½" * ¾"	25 cm C-Flex 374 to 50 cm Pharma APT to 25 cm C-Flex 374	ECM Male
SAL05013	ECS Female	⅛" * ¼"	25 cm Lifemeta STF to 50 cm Pharma APT to 25 cm Lifemeta STF	ECS Male
SAL05014		¼" * 7⁄16"	25 cm Lifemeta STF to 50 cm Pharma APT to 25 cm Lifemeta STF	
SAL05015		⅜" * ⅝"	25 cm Lifemeta STF to 50 cm Pharma APT to 25 cm Lifemeta STF	
SAL05016	ECM Female	½" * ¾"	25 cm Lifemeta STF to 50 cm Pharma APT to 25 cm Lifemeta STF	ECM Male
SAL05021	ECS Female	⅛" * ¼"	25 cm Lifemeta STF to 50 cm Lifemeta ST5P to 25 cm Lifemeta STF	ECS Male
SAL05022		¼" * 7⁄16"	25 cm Lifemeta STF to 50 cm Lifemeta ST5P to 25 cm Lifemeta STF	
SAL05023		⅜" * ⅝"	25 cm Lifemeta STF to 50 cm Lifemeta ST5P to 25 cm Lifemeta STF	
SAL05024	ECM Female	½" * ¾"	25 cm Lifemeta STF to 50 cm Lifemeta ST5P to 25 cm Lifemeta STF	ECM Male

Single-use Y-line Transfer Sets

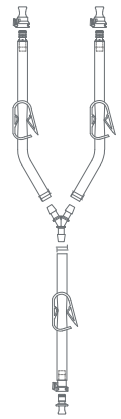
TPE tubing or Pt-cured silicone tubing is optional. The internal diameter of the tubing can be ⅛ "-½". The Y fittings can connect three tubings with the length of 50 cm. The end connectors can be tubing plugs, EC easy connectors, TC fittings (TC25/TC50) and aseptic connectors, which is suitable for tubing branching with high flexibility.

Option 1. with Tubing Plugs



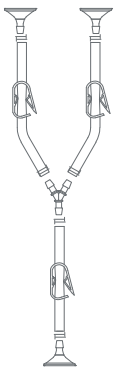
Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAY01005	Plug	⅛" * ¼" Lifemeta STF x3	50 cm x3	Plug x2
SAY01006		¼" * 7/16" Lifemeta STF x3	50 cm x3	
SAY01007		⅜" * ⅝" Lifemeta STF x3	50 cm x3	
SAY01008		½" * ¾" Lifemeta STF x3	50 cm x3	

Option 2. with EC Connectors



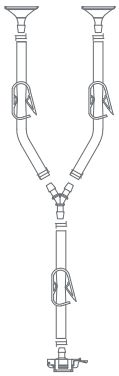
Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAY02005	ECS Female	⅛" * ¼" Lifemeta STT x3	50 cm x3	ECS Male x2
SAY02006		¼" * 7/16" Lifemeta STT x3	50 cm x3	
SAY02007		⅜" * ⅝" Lifemeta STT x3	50 cm x3	
SAY02008	ECM Female	½" * ¾" Lifemeta STT x3	50 cm x3	ECM Male x2

Option 3. with TC Connectors



Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAY03010	TC25	⅛" * ¼" Lifemeta STT x3	50 cm x3	TC25 x2
SAY03011		¼" * 7/16" Lifemeta STT x3	50 cm x3	
SAY03012		⅜" * ⅝" Lifemeta STT x3	50 cm x3	
SAY03013		½" * ¾" Lifemeta STT x3	50 cm x3	
SAY03014		¾" * 1" Lifemeta STT x3	50 cm x3	
SAY03015	TC50	¼" * 7/16" Lifemeta STT x3	50 cm x3	TC50 x2
SAY03016		⅜" * ⅝" Lifemeta STT x3	50 cm x3	
SAY03017		½" * ¾" Lifemeta STT x3	50 cm x3	
SAY03018		¾" * 1" Lifemeta STT x3	50 cm x3	

Option 4. with AseptiQuik® G Sterile Connectors



Cat. No.	Port 1	Tubing (ID*OD)	Length	Port 2
SAY05013	AseptiQuik G Sterile Connectors	¼" * 7/16" Lifemeta STT x3	50 cm x3	AseptiQuik G Sterile Connectors x2
SAY05014		⅜" * ⅝" Lifemeta STT x3	50 cm x3	
SAY05015		½" * ¾" Lifemeta STT x3	50 cm x3	
SAY05016		¼" * 7/16" Lifemeta STT x3	50 cm x3	ECS Male + ECS Female
SAY05017		⅜" * ⅝" Lifemeta STT x3	50 cm x3	
SAY05018		½" * ¾" Lifemeta STT x3	50 cm x3	ECM Male + ECM Female
SAY05019		¼" * 7/16" Lifemeta STT x3	50 cm x3	TC25 x2
SAY05020		⅜" * ⅝" Lifemeta STT x3	50 cm x3	
SAY05021		½" * ¾" Lifemeta STT x3	50 cm x3	
SAY05022		¼" * 7/16" Lifemeta STT x3	50 cm x3	TC50 x2
SAY05023		⅜" * ⅝" Lifemeta STT x3	50 cm x3	
SAY05024		½" * ¾" Lifemeta STT x3	50 cm x3	

Single-use Filter Sets

TPE tubing or Pt-cured silicone tubing is optional. The inner diameter of the tubing can be ⅛"-½ ". Two tubings of 100 cm each are connected at both ends of the filter. The end connectors can be tubing plugs, EC easy connectors, TC fittings (TC25/TC50) and aseptic connectors. The filter can be Bricap C/L , which is suitable for liquid filtration. The pre-assembly and pre-sterilized filter sets are ready to use.

Figure 1 with tubing plugs, Bricap® C01 capsule filters

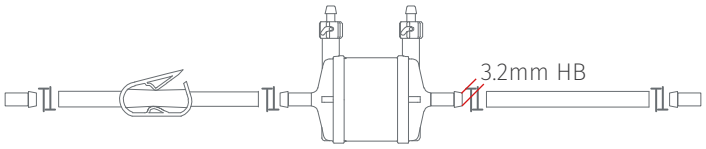


Figure 2 with tubing plugs, Bricap® C03 capsule filters

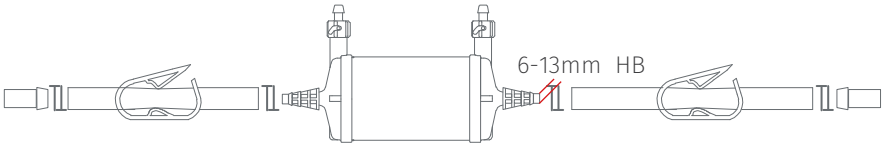
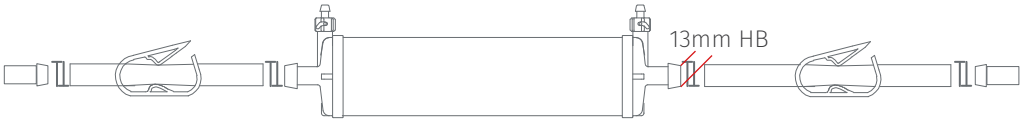


Figure 3 with tubing plugs, Bricap® L05 capsule filters



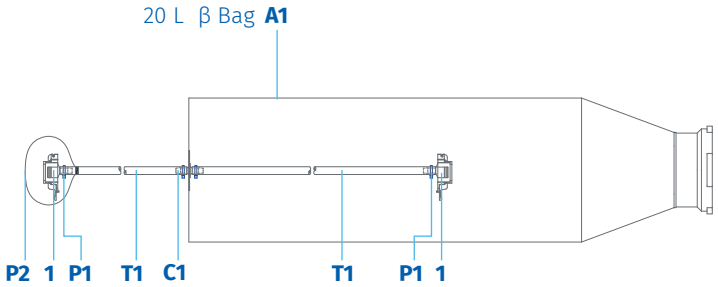
Figure 4 with tubing plugs, Bricap® L10 capsule filters



Option 1. Single-use Filter Sets with C-Flex® 374 and Lifemeta STF TPE Tubing and Plugs					
Cat. No.	Port 1	Tubing (ID*OD)	Length	Filter type	Port 2
SAF01009	Plug	⅛" * ¼" C-Flex 374	100 cm x2	C01LLSLESG1P	Plug
SAF01010		¼" * 7/16" C-Flex 374	100 cm x2	C03BBSLESG1P	
SAF01011		⅜" * ⅝" C-Flex 374	100 cm x2	L05YYSLESG1P	
SAF01012		½" * ¾" C-Flex 374	100 cm x2	L10HHSLESG1P	
SAF01013	Plug	⅛" * ¼" Lifemeta STF	100 cm x2	C01LLSLESG1P	Plug
SAF01014		¼" * 7/16" Lifemeta STF	100 cm x2	C03BBSLESG1P	
SAF01015		⅜" * ⅝" Lifemeta STF	100 cm x2	L05YYSLESG1P	
SAF01016		½" * ¾" Lifemeta STF	100 cm x2	L10HHSLESG1P	
Option 2. Single-use Filter Sets with Lifemeta STT Pt-cured Silicone Tubing and EC Connectors					
Cat. No.	Port 1	Tubing (ID*OD)	Length	Filter type	Port 2
SAF02021	ECS Female	⅛" * ¼" Lifemeta STT	100 cm x2	C01LLSLESG1P	ECS Male
SAF02022		¼" * 7/16" Lifemeta STT	100 cm x2	C03BBSLESG1P	
SAF02023		⅜" * ⅝" Lifemeta STT	100 cm x2	L05YYSLESG1P	
SAF02024	ECM Female	½" * ¾" Lifemeta STT	100 cm x2	L10HHSLESG1P	ECM Male
SAF02025	ECS Male	⅛" * ¼" Lifemeta STT	100 cm x2	C01LLSLESG1P	TC 25
SAF02026		¼" * 7/16" Lifemeta STT	100 cm x2	C03BBSLESG1P	
SAF02027		⅜" * ⅝" Lifemeta STT	100 cm x2	L05YYSLESG1P	
SAF02028	ECS Male	¼" * 7/16" Lifemeta STT	100 cm x2	C03BBSLESG1P	TC 50
SAF02029		⅜" * ⅝" Lifemeta STT	100 cm x2	L05YYSLESG1P	
SAF02030	ECM Male	½" * ¾" Lifemeta STT	100 cm x2	L10HHSLESG1P	
Option 3. Single-use Filter Sets with Lifemeta STT Pt-cured Silicone Tubing and AseptiQuik G Connectors					
Cat. No.	Port 1	Tubing (ID*OD)	Length	Filter type	Port 2
SAF03019	AseptiQuik G Sterile Connectors	¼" * 7/16" Lifemeta STT	100 cm x2	C03BBSLESG1P	ECS Male
SAF03020		⅜" * ⅝" Lifemeta STT	100 cm x2	L05YYSLESG1P	
SAF03021		½" * ¾" Lifemeta STT	100 cm x2	L10HHSLESG1P	ECM Male
SAF03022		¼" * 7/16" Lifemeta STT	100 cm x2	C03BBSLESG1P	TC 25
SAF03023		⅜" * ⅝" Lifemeta STT	100 cm x2	L05YYSLESG1P	
SAF03024		¼" * 7/16" Lifemeta STT	100 cm x2	C03BBSLESG1P	TC 50
SAF03025		⅜" * ⅝" Lifemeta STT	100 cm x2	L05YYSLESG1P	
SAF03026		½" * ¾" Lifemeta STT	100 cm x2	L10HHSLESG1P	

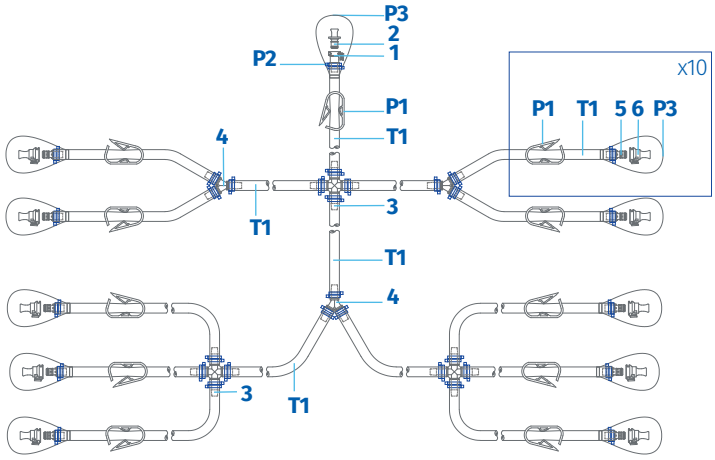
SA Single-use Assemblies —— Customized Solutions

Customized Solutions 13



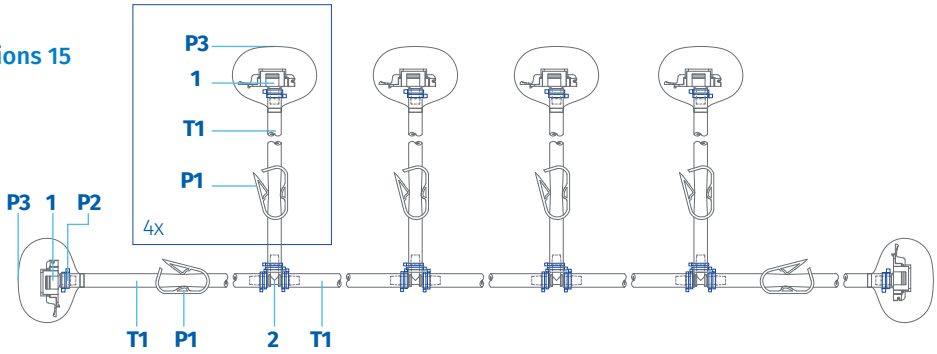
NO.	DESCRIPTION	SUM
A1	105 mm Single-use β Bag	1 pcs
C1	Opposable Barbs, ¼"HB	1 pcs
T1	Lifemeta STT Pt-cured Silicone Tubing, ID¼"*OD$^{7}/_{16}$"	1.9 m
1	AseptiQuik G Connector, ¼" HB	2 pcs
P1	Cable Tie, 3.6 mm	4 pcs
P2	Dust Cover	1 pcs

Customized Solutions 14



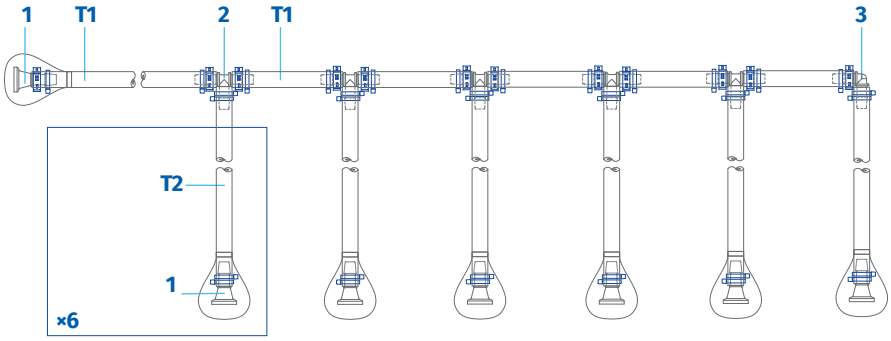
NO.	DESCRIPTION	SUM
P3	Dust Cover	11 pcs
P2	Cable Tie, 3.6 mm	A/R
P1	Clamp, OD½"-OD¾"	11 pcs
6	Lifemeta ECS Sealing Cap	10 pcs
5	Lifemeta ECS Coupling Inserts, ⅜"HB	10 pcs
4	Y-Fitting, ⅜"HB	3 pcs
3	Cross Fitting, ⅜"HB	3 pcs
2	Lifemeta ECS Sealing Plug	1 pcs
1	Lifemeta ECS Coupling Bodies, ⅜"HB	1 pcs
T1	Lifemeta STT Pt-cured Silicone Tubing, ID⅜"*OD⅝"	160 cm

Customized Solutions 15



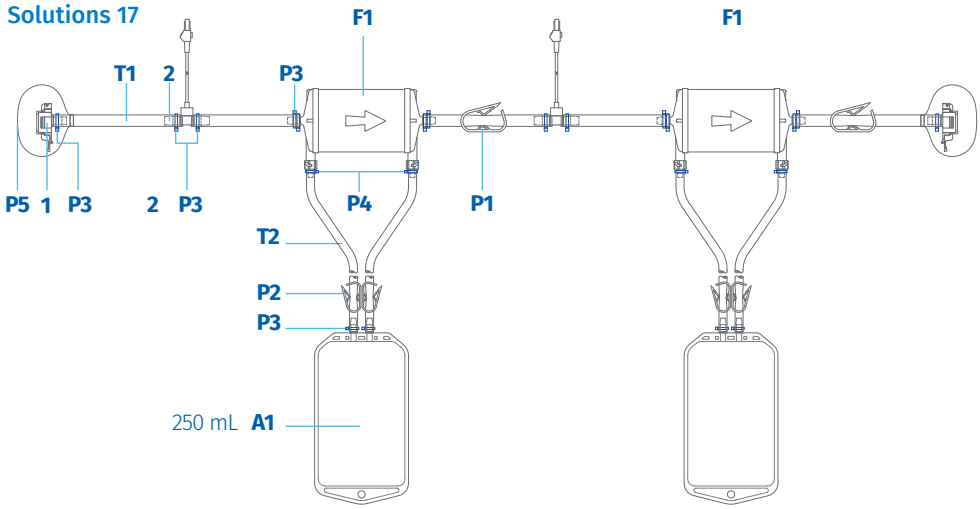
NO.	DESCRIPTION	SUM
P3	Dust Cover	6 pcs
P2	Cable Tie, 3.6 mm	A/R
P1	Clamp, OD½"-OD¾"	6 pcs
2	T-Fitting, ⅜"HB	4 pcs
1	AseptiQuik G Connector, ⅜"HB	6 pcs
T1	Lifemeta STT Pt-cured Silicone Tubing, ID⅜"*OD⅝"	170 cm

Customized Solutions 16



NO.	DESCRIPTION	SUM
3	L-Fitting, ⅜"HB	1 pcs
2	T-Fitting, ⅜"HB	5 pcs
T2	TC Fitting, ⅜"HB to ¾"TC	7 pcs
T1	Lifemeta ST5P Pt-cured Silicone Pump Tubing, ID⅜"*OD⅝"	69 cm

Customized Solutions 17



NO.	DESCRIPTION	SUM
P5	Dust Cover	2 pcs
P4	Cable Tie, 2.5 mm	4 pcs
P3	Cable Tie, 3.6 mm	18 pcs
P2	Clamp, OD¼"-OD½"	4 pcs
P1	Clamp, OD½"-OD¾"	2 pcs
2	Single Use Pressure Sensors, ⅜"HB	2 pcs
1	AseptiQuik G Connector, ⅜"HB	2 pcs
F1	Bricap L05 Capsule Filter with Cobetter Corevital SMD 0.45/0.2 μm	2 pcs
T2	Lifemeta STT Pt-cured Silicone Tubing, ID$^{3}/_{16}$"*OD$^{5}/_{16}$"	100 cm
T1	Lifemeta STT Pt-cured Silicone Tubing, ID⅜"*OD⅝"	340 cm
A1	250 mL Single-use Bag with ¼"-¼" Ports	2 pcs

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* Specifications subject to change without notice.