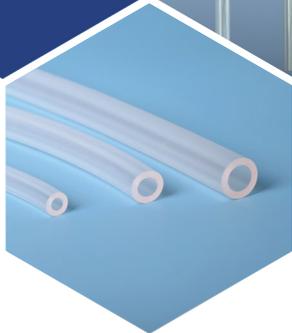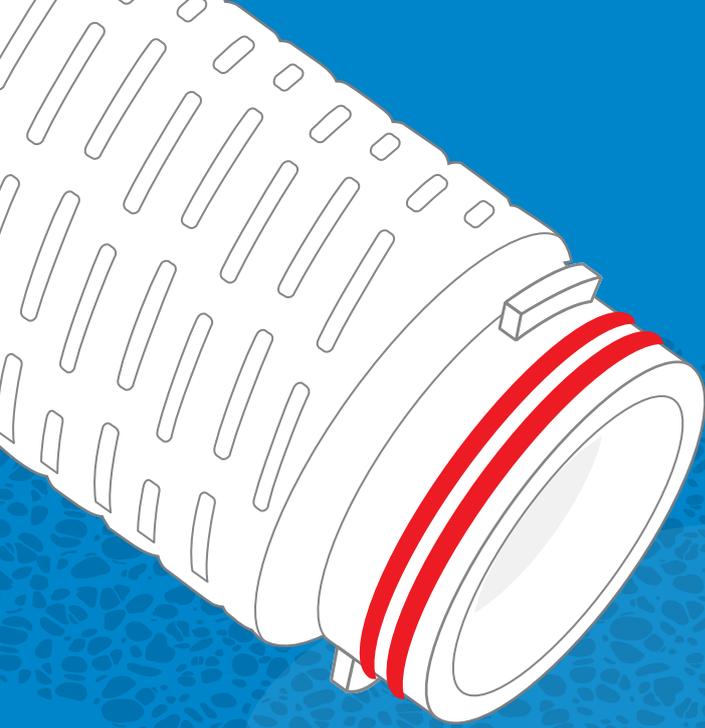# cobetter
filtration

Laboratory Consumables Catalog

cobetter®
filtration

Filtration
Separation
Purification

Cobetter dedicates itself to providing Filtration, Separation, & Purification

Solutions for bio-pharmaceutical processes. Cobetter provides over 8,400+ process validation

reports for customers in the pharmaceutical industry (2024),

and provided over 4,100+ technical analysis reports for customers in the microelectronic, chemical

and life science industry.

AVL Center

Application and Validation Laboratory Center

For Life Science Applications

- Bacterial challenge test
- Extractables and Leachables test
- Chemical compatibility test
- Integrity test
- Customized filtration solutions
- Filtration process optimization services
- Ultrafiltration process optimization services
- Single-use solutions and validation services
- Particle distribution and efficiency testing
- Pollutant analysis service
- ……

C13 Semiconductor Ultra-Pure Fluoropolymer Materials and Components Manufacturing & Irradiation Center

C11 Semiconductor Ultra-pure water Degassing Membrane

C12 Biopharma Filtration Products Manufacturing Center

C8 Cobetter R&D Headquarters

C9 Multilayer Co-extruded Film & ECMO Membrane Manufacturing

C10 Virus Clearance Validation Services Center Newtron Bioassay Co.,Ltd

C1 **Factory**
Membrane Filter Manufacturing
9400 SQM

C2 **Factory**
Depth Filter Manufacturing
9000 SQM

C3 Semiconductor & Biological Filter Manufacturing
13500 SQM

C4 **Factory**
Stainless Filter Manufacturing
Fluoroplastics Resurtech Manufacturing
28000 SQM

C5 Application & Validation Laboratory Center
Biopharm Single-Use Manufacturing
41,000 SQM

C6 Living Quarters
33000 SQM

C7 Diagnostic Product R&D Center
1300 SQM

Catalog

Membrane Filters

Selection Guide

Liquid

Aqueous
Tissue culture media, buffer	PES
Protein filtration	PVDF
Particle analysis, microbiology	MCE
Solvent mixture	Nylon / PTFE

Solvent
Non-polar (hydrophobic)	PTFE
Polar (Hydrophilic)	Nylon
Strong acid & alkali	PTFE

Air —————— PTFE
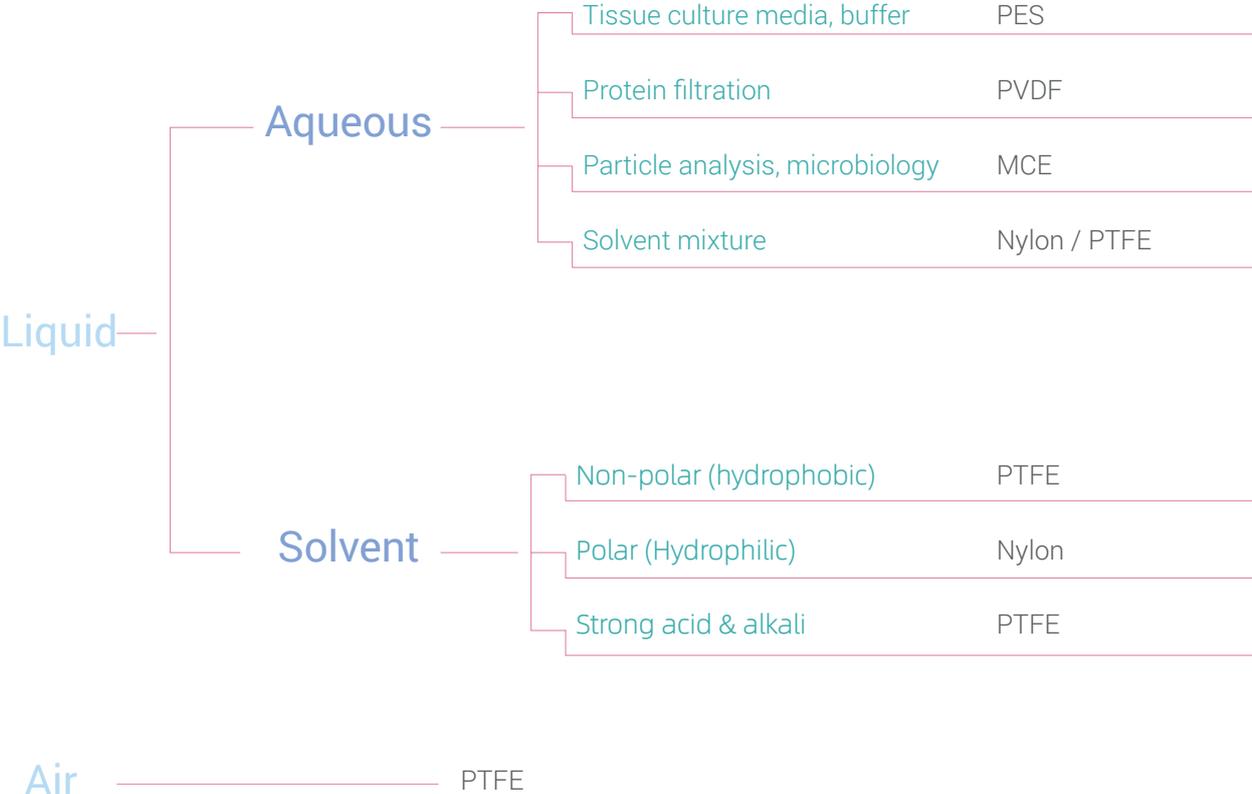
Membrane Filters for Aqueous Solutions

PES Membrane Filter

PES Membrane Filter possesses a unique asymmetric pore structure, with high porosity, fast flow rates, and high throughput. They exhibit low protein binding and have chemical compatibility ranging from pH 3 to 14, not resistant to ketones, esters, and similar compounds. PES membranes are the preferred choice for fluid sterile filtration.

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPES-2225	PES	25mm	0.22μm	50
MFPES-2247	PES	47mm	0.22μm	50
MFPES-2250	PES	50mm	0.22μm	50
MFPES-2260	PES	60mm	0.22μm	25
MFPES-4525	PES	25mm	0.45μm	50
MFPES-4547	PES	47mm	0.45μm	50
MFPES-4550	PES	50mm	0.45μm	50
MFPES-4560	PES	60mm	0.45μm	25

Other pore sizes: 0.1, 0.65, 0.8, 1.2, 3.0, 5.0, 8.0μm;

Other diameters: 13, 90, 100, 110, 142, 150, 200, 300mm

MCE Membrane Filter

Mixed Cellulose Ester (MCE) membranes are composed of cellulose nitrate (CN) and cellulose acetate (CA). They are one of the most widely used membranes in laboratory analysis and research applications, with chemical compatibility in the pH range of 4 to 8.

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFMCE-2247	MCE	47mm	0.22μm	50
MFMCE-2250	MCE	50mm	0.22μm	50
MFMCE-2260	MCE	60mm	0.22μm	50
MFMCE-4547	MCE	47mm	0.45μm	50
MFMCE-4550	MCE	50mm	0.45μm	50
MFMCE-4560	MCE	60mm	0.45μm	50

Other pore sizes: 0.65, 0.8, 1.2, 3.0, 5.0, 8.0μm;

Other diameters: 13, 25, 90, 100, 110, 142, 150, 200, 300mm

Membrane Filter for Organic Solutions

Nylon Membrane Filter

Nylon membranes have natural hydrophilicity, making them easily wetted by water, and they possess high mechanical strength. Their chemical compatibility spans pH 3 to 14, making them suitable for filtering aqueous solutions and most organic solvents, particularly alkaline solutions and alcohols. They are recommended for filtering DMSO.

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFNY-2225	Nylon	25mm	0.22µm	50
MFNY-2247	Nylon	47mm	0.22µm	50
MFNY-2250	Nylon	50mm	0.22µm	50
MFNY-2260	Nylon	60mm	0.22µm	25
MFNY-4525	Nylon	25mm	0.45µm	50
MFNY-4547	Nylon	47mm	0.45µm	50
MFNY-4550	Nylon	50mm	0.45µm	50
MFNY-4560	Nylon	60mm	0.45µm	25

Other pore sizes: 0.1, 0.8, 1.0, 3.0, 5.0, 8.0µm;
Other diameters: 13, 90, 100, 110, 142, 150, 200, 300mm

PTFE Membrane Filter

Polytetrafluoroethylene (PTFE) membranes have exceptional chemical compatibility, with a resistance range of pH 1 to 14, virtually tolerating all organic solvents. Their natural hydrophobic properties make them suitable for gas or air filtration applications. Hydrophobic PTFE membranes can withstand high temperatures up to 200 ℃.
Modified hydrophilic PTFE membranes can directly filter aqueous solutions without the need for pre-wetting with ethanol or isopropanol.

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPT-2225	Hydrophobic PTFE	25mm	0.22µm	50
MFPT-2247	Hydrophobic PTFE	47mm	0.22µm	50
MFPT-2250	Hydrophobic PTFE	50mm	0.22µm	50
MFPT-4525	Hydrophobic PTFE	25mm	0.45µm	50
MFPT-4547	Hydrophobic PTFE	47mm	0.45µm	50
MFPT-4550	Hydrophobic PTFE	50mm	0.45µm	50
MFPTH-1047	Hydrophilic PTFE	47mm	0.1µm	50
MFPTH-1050	Hydrophilic PTFE	50mm	0.1µm	50
MFPTH-2247	Hydrophilic PTFE	47mm	0.22µm	50
MFPTH-2250	Hydrophilic PTFE	50mm	0.22µm	50
MFPTH-4547	Hydrophilic PTFE	47mm	0.45µm	50
MFPTH-4550	Hydrophilic PTFE	50mm	0.45µm	50

Other pore sizes: 1.0, 3.0, 5.0µm;
Other diameters: 13, 60, 90, 100, 110, 142, 150, 300mm

PVDF Membrane Filter

Hydrophilic Polyvinylidene Fluoride (PVDF) membranes exhibit good chemical compatibility, with a resistance range of pH 1 to 8, although they cannot withstand acetone, DMSO, THF, DMF, dimethyl carbonate, chloroform, and similar solvents. PVDF membranes are widely used for filtering protein samples and biological products.

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPVH-1047	Hydrophilic PVDF	47mm	0.1µm	50
MFPVH-1050	Hydrophilic PVDF	50mm	0.1µm	50
MFPVH-2247	Hydrophilic PVDF	47mm	0.22µm	50
MFPVH-2250	Hydrophilic PVDF	50mm	0.22µm	50
MFPVH-4547	Hydrophilic PVDF	47mm	0.45µm	50
MFPVH-4550	Hydrophilic PVDF	50mm	0.45µm	50

Other pore sizes: 1.0µm;
Other diameters: 13, 25, 60, 90, 100, 110, 142, 150, 200, 300mm

GF Membrane Filter

Glass Fiber depth filtration materials contain binders, provide high mechanical strength, and are suitable for filtering coarse particles or solutions with high viscosity.

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFGF-2225	GF with Binder	25mm	0.22µm	15
MFGF-2247	GF with Binder	47mm	0.22µm	15
MFGF-2290	GF with Binder	90mm	0.22µm	10
MFGF-22110	GF with Binder	110mm	0.22µm	10
MFGF-4525	GF with Binder	25mm	0.45µm	15
MFGF-4547	GF with Binder	47mm	0.45µm	15
MFGF-4590	GF with Binder	90mm	0.45µm	10
MFGF-45110	GF with Binder	110mm	0.45µm	10

PP Membrane Filter

Polypropylene (PP) membranes exhibit excellent resistance to organic solvents, high dirt-holding capacity, and fast flow rates. They are especially suitable for filtering solutions with high levels of impurities or high viscosity. PP membranes can withstand temperatures of up to 80°C.

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPP-2225	Hydrophobic PP	25mm	0.22μm	50
MFPP-2247	Hydrophobic PP	47mm	0.22μm	50
MFPP-2250	Hydrophobic PP	50mm	0.22μm	50
MFPP-4525	Hydrophobic PP	25mm	0.45μm	50
MFPP-4547	Hydrophobic PP	47mm	0.45μm	50
MFPP-4550	Hydrophobic PP	50mm	0.45μm	50

Other pore sizes: 0.1, 1.0, 3.0, 5.0, 10.0, 20.0μm;
Other diameters: 13, 60, 90, 100, 110, 142, 150, 200, 250mm

PP Prefilter for ÄKTA Systems

Cobetter PP prefilters are suitable for online filtration in ÄKTA chromatography systems. They are used for prefiltration of feed liquids, extending the lifespan of chromatography columns.

Features

· Smooth, with no obvious hair or fiber shedding
· Compatible with organic solvents and salt buffers commonly used in chromatography

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
PT16H-10	PP	1.6±0.1mm	10mm	10

PVDF Transfer Membrane

Protein transfer is an important step in western blot analysis, where proteins separated in gel are transferred to a solid supporting matrix by electrophoresis. Anchoring a protein to a solid support matrix helps detect a specific protein using antibodies against the target protein.

Typical Applications

· 0.45μm for most blots, especially for proteins larger than 20kDa
· Compatibility: Compatible with commonly used transfer conditions and detection methods (e.g., dye, CLIA, radiolabels, etc.)

Features

· Smooth and flat surface, not easy to curl
· High mechanical strength, easy to be stripped and reprobed multiple times
· Uniform pore size, high mobility, clear and neat bands
· High sensitivity to ensure the success rate of low abundance protein detection

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
3350YH-R2703	Hydrophobic PVDF	275mm*3.75m	0.2μm	1 roll
3350YH-F150	Hydrophobic PVDF	150mm*150mm	0.2μm	50 pcs
3350YH-F200	Hydrophobic PVDF	200mm*200mm	0.2μm	50 pcs
3350YH-F8470	Hydrophobic PVDF	84mm*70mm	0.2μm	50 pcs
2690H-R2703	Hydrophobic PVDF	275mm*3.75m	0.45μm	1 roll
2690H-F150	Hydrophobic PVDF	150mm*150mm	0.45μm	50 pcs
2690H-F200	Hydrophobic PVDF	200mm*200mm	0.45μm	50 pcs
2690H-F8470	Hydrophobic PVDF	84mm*70mm	0.45μm	50 pcs

Syringe Filters

Cobetter color-coded syringe filters are specifically designed to filter samples for chromatographic analysis, removing particles and microorganisms from aqueous and organic solvents.

Selection Guide

Aqueous	PES		High throughput, low protein adsorption
	MCE		Widely used in water quality analysis and detection
Organic	Nylon		Compatible with organic and aqueous solutions, not resistant to strong alkali
	PTFE		Hydrophobic and hydrophilic available, strong acid and alkali resistance
	PTFE		HPLC certified, no leachables
	PVDF		Low protein binding, suitable for filtration of biological sample
Prefiltration	PP		High dirt holding capacity, wide chemical compatibility
	GF		Filtration of coarse particles or viscous solutions

Syringe Filters for Aqueous Solutions

PES Syringe Filters

Typical Applications

· Filtration of aqueous solutions
· Sterile filtration of tissue culture media and protein solutions

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk(pcs)
SFMPES-2213	PES	13mm	0.22μm	100
SFMPES-4513	PES	13mm	0.45μm	100
SFMPES-8013	PES	13mm	0.8μm	100
SFMPES-2225	PES	25mm	0.22μm	100
SFMPES-4525	PES	25mm	0.45μm	100
SFMPES-8025	PES	25mm	0.8μm	100
SFMPES-2233	PES	33mm	0.22μm	100
SFMPES-4533	PES	33mm	0.45μm	100
SFMPES-8033	PES	33mm	0.8μm	100

MCE Syringe Filters

Typical Applications

· Economic syringe filters for aqueous solutions filtration
· High throughput, particulate removal filtration

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk(pcs)
SFMMCE-2213	MCE	13mm	0.22μm	100
SFMMCE-4513	MCE	13mm	0.45μm	100
SFMMCE-8013	MCE	13mm	0.8μm	100
SFMMCE-2233	MCE	25mm	0.22μm	100
SFMMCE-4533	MCE	25mm	0.45μm	100
SFMMCE-8033	MCE	25mm	0.8μm	100
SFMMCE-2233	MCE	33mm	0.22μm	100
SFMMCE-4533	MCE	33mm	0.45μm	100
SFMMCE-8033	MCE	33mm	0.8μm	100

Syringe Filters for Organic Solutions

Nylon Syringe Filters

Typical Applications

· Filtration of aqueous and organic solutions
· Commonly used for laboratory analytical filtration

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk(pcs)
SFMNY-2213	Nylon	13mm	0.22µm	100
SFMNY-4513	Nylon	13mm	0.45µm	100
SFMNY-8013	Nylon	13mm	0.8µm	100
SFMNY-2225	Nylon	25mm	0.22µm	100
SFMNY-4525	Nylon	25mm	0.45µm	100
SFMNY-8025	Nylon	25mm	0.8µm	100
SFMNY-2233	Nylon	33mm	0.22µm	100
SFMNY-4533	Nylon	33mm	0.45µm	100
SFMNY-8033	Nylon	33mm	0.8µm	100

PTFE Syringe Filters

Typical Applications

· Filtration for organic solutions, strong acid and alkali resistance
· Gas filtration

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk(pcs)
SFMPT-2213	Hydrophobic PTFE	13mm	0.22µm	100
SFMPT-4513	Hydrophobic PTFE	13mm	0.45µm	100
SFMPT-8013	Hydrophobic PTFE	13mm	0.8µm	100
SFMPT-2225	Hydrophobic PTFE	25mm	0.22µm	100
SFMPT-4525	Hydrophobic PTFE	25mm	0.45µm	100
SFMPT-8025	Hydrophobic PTFE	25mm	0.8µm	100
SFMPT-2233	Hydrophobic PTFE	33mm	0.22µm	100
SFMPT-4533	Hydrophobic PTFE	33mm	0.45µm	100
SFMPT-8033	Hydrophobic PTFE	33mm	0.8µm	100
SFMPTH-2213	Hydrophilic PTFE	13mm	0.22µm	100
SFMPTH-4513	Hydrophilic PTFE	13mm	0.45µm	100
SFMPTH-2225	Hydrophilic PTFE	25mm	0.22µm	100
SFMPTH-4525	Hydrophilic PTFE	25mm	0.45µm	100
SFMPTH-2233	Hydrophilic PTFE	33mm	0.22µm	100
SFMPTH-4533	Hydrophilic PTFE	33mm	0.45µm	100

Hydrophilic PVDF Syringe Filters

Typical Applications

· Clarification of protein solutions
· Filtration of biological samples

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk(pcs)
SFMPVH-1013	Hydrophilic PVDF	13mm	0.1µm	100
SFMPVH-2213	Hydrophilic PVDF	13mm	0.22µm	100
SFMPVH-4513	Hydrophilic PVDF	13mm	0.45µm	100
SFMPVH-1025	Hydrophilic PVDF	25mm	0.1µm	100
SFMPVH-2225	Hydrophilic PVDF	25mm	0.22µm	100
SFMPVH-4525	Hydrophilic PVDF	25mm	0.45µm	100
SFMPVH-1033	Hydrophilic PVDF	33mm	0.1µm	100
SFMPVH-2233	Hydrophilic PVDF	33mm	0.22µm	100
SFMPVH-4533	Hydrophilic PVDF	33mm	0.45µm	100

PP Syringe Filters

Typical Applications

· Prefiltration
· High dirt holding capacity, removal of large particulate impurities

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk(pcs)
SFUPP-2013	PP	13mm	0.2µm	100
SFUPP-4513	PP	13mm	0.45µm	100
SFUPP-2025	PP	25mm	0.2µm	100
SFUPP-4525	PP	25mm	0.45µm	100
SFUPP-10025	PP	25mm	1.0µm	100
SFUPP-50025	PP	25mm	5.0µm	100

GF Syringe Filters

Typical Applications

· Depth filtration
· Filtration of viscous samples in environmental and food analysis

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk(pcs)
SFUGF-2213	GF	13mm	0.22μm	100
SFUGF-4513	GF	13mm	0.45μm	100
SFUGF-2225	GF	25mm	0.22μm	100
SFUGF-4525	GF	25mm	0.45μm	100
SFUGF-10025	GF	25mm	1.0μm	100

HPLC Certified
Hydrophilic PTFE Syringe Filters

Features

· Hydrophilic PTFE membrane filter, low adsorption, no leachables
· Filtration for HPLC analysis, ensure reliable and repeatable results
· High batch stability

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk(pcs)
SFUPTH-2013	Hydrophilic PTFE	13mm	0.2μm	100
SFUPTH-4513	Hydrophilic PTFE	13mm	0.45μm	100
SFUPTH-2025	Hydrophilic PTFE	25mm	0.2μm	100
SFUPTH-4525	Hydrophilic PTFE	25mm	0.45μm	100

Sterile Syringe Filters

Features

· PES membrane with high flow rate, hydrophilic PVDF membrane with low protein binding
· Unique double-layer membrane structure, higher loading capacity
· Sterile by Gamma irradiation and individually packed

PES Sterile Syringe Filters

Part No.	Membrane	Diameter	Prefilter	Pore size	Sterilization	Qty/pk(pcs)
SFMPES-1013S	PES	13mm	0.2μm	0.1μm	Yes	100
SFMPES-2213S	PES	13mm	0.65μm	0.22μm	Yes	100
SFMPES-4513S	PES	13mm	0.8μm	0.45μm	Yes	100
SFMPES-1025S	PES	25mm	0.2μm	0.1μm	Yes	100
SFMPES-2225S	PES	25mm	0.65μm	0.22μm	Yes	100
SFMPES-4525S	PES	25mm	0.8μm	0.45μm	Yes	100
SFMPES-1033S	PES	33mm	0.2μm	0.1μm	Yes	100
SFMPES-2233S	PES	33mm	0.65μm	0.22μm	Yes	100
SFMPES-4533S	PES	33mm	0.8μm	0.45μm	Yes	100
SFPES-2213S	PES	13mm	/	0.22μm	Yes	100
SFPES-4513S	PES	13mm	/	0.45μm	Yes	100
SFPES-2225S	PES	25mm	/	0.22μm	Yes	100
SFPES-4525S	PES	25mm	/	0.45μm	Yes	100
SFPES-2233S	PES	33mm	/	0.22μm	Yes	100
SFPES-4533S	PES	33mm	/	0.45μm	Yes	100

Hydrophilic PVDF Sterile Syringe Filters

Part No.	Membrane	Diameter	Prefilter	Pore size	Sterilization	Qty/pk(pcs)
SFMPVH-1013S	Hydrophilic PVDF	13mm	0.2μm	0.1μm	Yes	100
SFMPVH-2213S	Hydrophilic PVDF	13mm	0.65μm	0.22μm	Yes	100
SFMPVH-4513S	Hydrophilic PVDF	13mm	1.0μm	0.45μm	Yes	100
SFMPVH-1025S	Hydrophilic PVDF	25mm	0.2μm	0.1μm	Yes	100
SFMPVH-2225S	Hydrophilic PVDF	25mm	0.65μm	0.22μm	Yes	100
SFMPVH-4525S	Hydrophilic PVDF	25mm	1.0μm	0.45μm	Yes	100
SFMPVH-1033S	Hydrophilic PVDF	33mm	0.2μm	0.1μm	Yes	100
SFMPVH-2233S	Hydrophilic PVDF	33mm	0.65μm	0.22μm	Yes	100
SFMPVH-4533S	Hydrophilic PVDF	33mm	1.0μm	0.45μm	Yes	100
SFPVH-2213S	Hydrophilic PVDF	13mm	/	0.22μm	Yes	100
SFPVH-4513S	Hydrophilic PVDF	13mm	/	0.45μm	Yes	100
SFPVH-2225S	Hydrophilic PVDF	25mm	/	0.22μm	Yes	100
SFPVH-4525S	Hydrophilic PVDF	25mm	/	0.45μm	Yes	100
SFPVH-2233S	Hydrophilic PVDF	33mm	/	0.22μm	Yes	100
SFPVH-4533S	Hydrophilic PVDF	33mm	/	0.45μm	Yes	100

Aegivast™ ACE Vent Filters

Features

· Natural hydrophobic PTFE membrane
· Low pressure drop
· Reliable bacteria and fine particle retention capability
· Unique product serial number tracking system
· Can be sterilized by gamma irradiation or autoclaved

Typical Applications

· Vent filter for fermenters, storage tanks
· Sterilization filtration of compressed air, O2, N2
· Venting filtration for single-use systems

Filter Material

Type	SFU13 / SFU25 / SFU33	V42 / 50A / V50D
Membrane	PTFE	PTFE
Support Layer	PET	PET/PP
Shell	PP	PP
Pore Size	0.2 µm	

Biosafty

Endotoxin	< 0.25EU/ml
Biocompatibility	Meet USP <87>, USP <88>

Sterilization Method

Gamma Irradiation	Sterile by gamma irradiation at 25-45 kGy
Syringe/Disc Filters	or autoclaved for 30 mins at 130 °C, 20 circles.(cannot be steam sterilized in-line)
Sterile Syringe/Disc Filters	Sterile by gamma irradiation at 25-45 kGy cannot be re-sterilization
Autoclavable Disc Filters	Can be autoclaved for 30 mins at 130 °C, 20 circles.(cannot be steam sterilized in-line)

Ordering Information

Part No.	Description	Sterilization	Qty/pk (pcs)
U13CPACEBA1P	13mmSyringe Filter，0.2µm PTFE	Autoclavable	1
U13CPACEBS1P	13mm Syringe Filter，0.2µm PTFE	Sterile by Gamma Irradiation	1
U25CPACEBA1P	25mm Syringe Filter，0.2µm PTFE	Autoclavable	1
U25CPACEBS1P	25mm Syringe Filter，0.2µm PTFE	Sterile by Gamma Irradiation	1
U33CPACEBA1P	33mm Syringe Filter，0.2µm PTFE	Autoclavable	1
U33CPACEBS1P	33mm Syringe Filter, 0.2µm PTFE	Sterile by Gamma Irradiation	1
V37EEACEBA1P	V37 Disc Filter，0.2µm PTFE, inlet/outlet: 6-9mm(1/4"-3/8")Stepped HB	Autoclavable	1
V42EEACEBA1P	V42 Disc Filter，0.2µm PTFE, inlet/outlet: 6-9mm(1/4"-3/8")Stepped HB	Autoclavable	1
V5ABBACEBA1P	V50A Disc Filter，0.2µm PTFE, inlet/outlet: 6-13mm(1/4"-1/2")Stepped HB	Autoclavable	1
V5DBBACEBA1P	V50A Disc Filter，0.2µm PTFE, inlet/outlet: 6-13mm(1/4"-1/2")Stepped HB	Autoclavable	1

Purcise™ Q Membrane Chromatography Syringe Filter

Purcise™ Q membrane is a new anion exchange medium that modifies special functional groups in crosslinked polymer coatings, enabling the separation and purification of negatively charged components.

Typical Applications

· Removal of contaminants such as host DNA, viruses, host cell proteins and endotoxins from biological fluids
· Capture of relatively large target molecules (e.g. recombinant proteins, plasmids, viral vectors, and plasma fractions)
· Purification of small molecules such as oligonucleotides, peptides

Product Specification

Product Specification	CXU33	CXD32	
Lab Specification			
Volume	0.2 mL	0.45 mL	0.9 mL
Minimum standards BSA binding capacity	50 mg/ml	50 mg/ml	50 mg/ml
Membrane forms	Flatbed	Flatbed	Flatbed
Layers	3	8	16
Connection forms	Inlet: Female luer Outlet: Similar to male luer	Female luer	Female luer
Structural material	Up housing: PP Lower housing: PP	Up housing: PP Lower housing: PP	Up housing: PP Lower housing: PP
Recommended flow rate range*	0.2-5 mL/min	0.45-11.25 mL/min	0.9-22.5 mL/min
Max. operating pressure	4.0 bar	4.0 bar	4.0 bar
Typical applications	Process development experiments; reduced model tests	Process development experiments; reduced model tests	Process development experiments; reduced model tests

Ordering Information

Part No.	Description	Membrane Volume	Qty/pk(pcs)
CXU33EAQ03CP1P	Purcise™ Q Membrane Chromatography Syringe Filter	0.2 ml	1
CXU33EAQ03CP4P	Purcise™ Q Membrane Chromatography Syringe Filter	0.2 ml	4
CXD32EAQ08CC1P	Purcise™ Q Membrane Chromatography Syringe Filter	0.45 ml	1
CXD32EAQ08CC4P	Purcise™ Q Membrane Chromatography Syringe Filter	0.45 ml	4
CXD32EAQ16CC1P	Purcise™ Q Membrane Chromatography Syringe Filter	0.9 ml	1
CXD32EAQ16CC4P	Purcise™ Q Membrane Chromatography Syringe Filter	0.9 ml	4

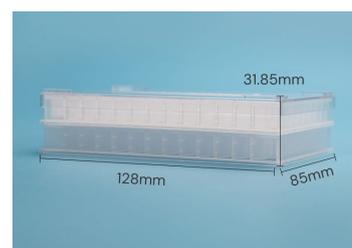# Pressure Filters

Oro prep™ Multi-well Filter Plate

Features

· 24-well filter plate, meeting the filtration requirements up to 7mL of sample
· 96-well filter plate, providing 350 μL well volume for rapid sample loading
· The filter plate can be used for vacuum filtration, positive pressure filtration, and centrifugation
· Automation compatible, filter plates to be run in manual, semi-automated, and automated processes
· High throughput and rapid sample processing, low hold-up volume

Specifications

		24-well Filter Plate	96-well Filter Plate
Dimensions	Length	128mm	128mm
	Width	85mm	85mm
	Height With Lid	77mm	31.85mm
Materials	Membrane	PES / PTFE / Pultrix™XQ	
	Plate Housing	PP	
	Receiver Plate	PP	
	Lid	GPPS	
Physical Properties	Well-Bottom Area	1.6cm²	0.36cm²
	Recommended Working Volume	7ml	300μL
	Operating Vacuum	10in. Hg	10in. Hg
	Centrifugal Force	1000g	1000g
Sterility		Gamma Irradiation	
Package		Individually Packaged by Double PE Bags	

96-well Filter Plate Ordering Information

Part No.	Description	Pore Size	Sterile	Qty/pk (sets)
OP96PE06AMDP	96-well filter plate, PES	0.2µm	Non-sterile	6
OP96PE06ASDP	96-well filter plate, PES	0.2µm	Sterile, individually packaged	6
OP96PE01BMDP	96-well filter plate, PES	0.65/0.2µm	Non-sterile	6
OP96PE01BSDP	96-well filter plate, PES	0.65/0.2µm	Sterile, individually packaged	6
OP96PE07AMDP	96-well filter plate, PES	0.45µm	Non-sterile	6
OP96PE07ASDP	96-well filter plate, PES	0.45µm	Sterile, individually packaged	6
OP96PE08AMDP	96-well filter plate, PES	1.2µm	Non-sterile	6
OP96PE08ASDP	96-well filter plate, PES	1.2µm	Sterile, individually packaged	6
OP96PT01AMDP	96-well filter plate, Hydrophobic PTFE	0.2µm	Non-sterile	6
OP96PT01ASDP	96-well filter plate, Hydrophobic PTFE	0.2µm	Sterile, individually packaged	6
OP96PT02AMDP	96-well filter plate, Hydrophobic PTFE	0.45µm	Non-sterile	6
OP96PT02ASDP	96-well filter plate, Hydrophobic PTFE	0.45µm	Sterile, individually packaged	6
OP96PTH01AMDP	96-well filter plate, Hydrophilic PTFE	0.2µm	Non-sterile	6
OP96PTH01ASDP	96-well filter plate, Hydrophilic PTFE	0.2µm	Sterile, individually packaged	6
OP96PTH02AMDP	96-well filter plate, Hydrophilic PTFE	0.45µm	Non-sterile	6
OP96PTH02ASDP	96-well filter plate, Hydrophilic PTFE	0.45µm	Sterile, individually packaged	6
CX96PPXQBMDP	96-well filter plate, Pultrix™ XQ	2-layer membrane	Non-sterile	6
CX96PPXQBSDP	96-well filter plate, Pultrix™ XQ	2-layer membrane	Sterile, individually packaged	6
CX96PPXQCMDP	96-well filter plate, Pultrix™ XQ	3-layer membrane	Non-sterile	6
CX96PPXQCSDP	96-well filter plate, Pultrix™ XQ	3-layer membrane	Sterile, individually packaged	6

24-well Filter Plate Ordering Information

Part No.	Description	Pore Size	Sterile	Qty/pk (sets)
OP24PE06AMDP	24-well filter plate, PES	0.2µm	Non-sterile	6
OP24PE06ASDP	24-well filter plate, PES	0.2µm	Sterile, individually packaged	6
OP24PE01BMDP	24-well filter plate, PES	0.65/0.2µm	Non-sterile	6
OP24PE01BSDP	24-well filter plate, PES	0.65/0.2µm	Sterile, individually packaged	6
OP24PE07AMDP	24-well filter plate, PES	0.45µm	Non-sterile	6
OP24PE07ASDP	24-well filter plate, PES	0.45µm	Sterile, individually packaged	6
OP24PE08AMDP	24-well filter plate, PES	1.2µm	Non-sterile	6
OP24PE08ASDP	24-well filter plate, PES	1.2µm	Sterile, individually packaged	6
OP24PT01AMDP	24-well filter plate, Hydrophobic PTFE	0.2µm	Non-sterile	6
OP24PT01ASDP	24-well filter plate, Hydrophobic PTFE	0.2µm	Sterile, individually packaged	6
OP24PT02AMDP	24-well filter plate, Hydrophobic PTFE	0.45µm	Non-sterile	6
OP24PT02ASDP	24-well filter plate, Hydrophobic PTFE	0.45µm	Sterile, individually packaged	6
OP24PTH01AMDP	24-well filter plate, Hydrophobic PTFE	0.2µm	Non-sterile	6
OP24PTH01ASDP	24-well filter plate, Hydrophobic PTFE	0.2µm	Sterile, individually packaged	6
OP24PTH02AMDP	24-well filter plate, Hydrophobic PTFE	0.45µm	Non-sterile	6
OP24PTH02ASDP	24-well filter plate, Hydrophobic PTFE	0.45µm	Sterile, individually packaged	6
CX24PPXQBMDP	24-well filter plate, Pultrix™ XQ	2-layer membrane	Non-sterile	6
CX24PPXQBSDP	24-well filter plate, Pultrix™ XQ	2-layer membrane	Sterile, individually packaged	6
CX24PPXQCMDP	24-well filter plate, Pultrix™ XQ	3-layer membrane	Non-sterile	6
CX24PPXQCSDP	24-well filter plate, Pultrix™ XQ	3-layer membrane	Sterile, individually packaged	6

Vacuum Filters

Cobetter BriScale VF Vacuum Filters are the most suitable choice for sterile filtration of 200mL to 15L media or buffers. The membrane pore size is 0.1μm, 0.2μm, 0.45μm, 0.8μm, 1.0μm and other specifications.

Product Information

	150mL	250mL	500mL	1000mL
Membrane Material	PES, Hydrophilic PVDF			
Pore size	0.1μm，0.2/0.1μm，0.2μm, 0.45μm, 0.8 μm，1.0μm			
EFA	19 cm²	19 cm²	38 cm²	63 cm²
Package	24 pcs/case	24 pcs/case	9 pcs/case	9 pcs/case
Bottle & Lid	PS			
Funnel Adapter & Screw Cap	HDPE			
Delivery Condition	Sterile by Gamma Irradiation			
Endotoxin	< 0.25EU/ml			
Biosafety	Meet USP <87>, USP <88>			

PES Vacuum Filter Ordering Information

Part No.	Volume	Material	Pore size	Sterile	Qty/pk (pcs)
VFC150MLENP	150mL	PES	0.1µm	Yes	24
VFC150MLEBP	150mL	PES	0.2/0.1µm	Yes	24
VFC150SCCNP	150mL	PES	0.2µm	Yes	24
VFC150PCASP	150mL	PES	0.45µm	Yes	24
VFC150PAFLP	150mL	PES	0.8µm	Yes	24
VFC150PAFPP	150mL	PES	1.0µm	Yes	24
VFC250MLENP	250mL	PES	0.1µm	Yes	24
VFC250MLEBP	250mL	Double layer PES	0.2/0.1µm	Yes	24
VFC250SCCNP	250mL	PES	0.2µm	Yes	24
VFC250PCASP	250mL	PES	0.45µm	Yes	24
VFC250PAFLP	250mL	PES	0.8µm	Yes	24
VFC250PAFPP	250mL	PES	1.0µm	Yes	24
VFC500MLENP	500mL	PES	0.1µm	Yes	9
VFC500MLEBP	500mL	Double layer PES	0.2/0.1µm	Yes	9
VFC500SCCNP	500mL	PES	0.2µm	Yes	9
VFC500PCASP	500mL	PES	0.45µm	Yes	9
VFC500PAFLP	500mL	PES	0.8µm	Yes	9
VFC500PAFPP	500mL	PES	1.0µm	Yes	9
VFC01LMLENP	1000mL	PES	0.1µm	Yes	9
VFC01LMLEBP	1000mL	Double layer PES	0.2/0.1µm	Yes	9
VFC01LSCCNP	1000mL	PES	0.2µm	Yes	9
VFC01LPCASP	1000mL	PES	0.45µm	Yes	9
VFC01LPAFLP	1000mL	PES	0.8µm	Yes	9
VFC01LPAFPP	1000mL	PES	1.0µm	Yes	9

Hydrophilic PVDF Vacuum Filter Ordering Information

Part No.	Volume	Material	Pore size	Sterile	Qty/pk (pcs)
VFC150SMDNP	150mL	Hydrophilic PVDF	0.2µm	Yes	24
VFC150PDFSP	150mL	Hydrophilic PVDF	0.45µm	Yes	24
VFC250SMDNP	250mL	Hydrophilic PVDF	0.2µm	Yes	24
VFC250PDFSP	250mL	Hydrophilic PVDF	0.45µm	Yes	24
VFC500SMDNP	500mL	Hydrophilic PVDF	0.2µm	Yes	9
VFC500PDFSP	500mL	Double Hydrophilic PVDF	0.45µm	Yes	9
VFC01LSMDNP	1000mL	Hydrophilic PVDF	0.2µm	Yes	9
VFC01LPDFSP	1000mL	Double Hydrophilic PVDF	0.45µm	Yes	9

Filter Funnel Ordering information

Part No.	Volume	Material	Pore size	Sterile	Qty/pk (pcs)
VFF150SCCNP	150mL	PES	0.2μm	Yes	48
VFF250SCCNP	250mL	PES	0.2μm	Yes	48
VFF500SCCNP	500mL	PES	0.2μm	Yes	18
VFF01LSCCNP	1000mL	PES	0.2μm	Yes	18
VFF150PCASP	150mL	PES	0.45μm	Yes	48
VFF250PCASP	250mL	PES	0.45μm	Yes	48
VFF500PCASP	500mL	PES	0.45μm	Yes	18
VFF01LPCASP	1000mL	PES	0.45μm	Yes	18
VFF150PAFLP	150mL	PES	0.8μm	Yes	48
VFF250PAFLP	250mL	PES	0.8μm	Yes	48
VFF500PAFLP	500mL	PES	0.8μm	Yes	18
VFF01LPAFLP	1000mL	PES	0.8μm	Yes	18
VFF150PAFPP	150mL	PES	1.0μm	Yes	48
VFF250PAFPP	250mL	PES	1.0μm	Yes	48
VFF500PAFPP	500mL	PES	1.0μm	Yes	18
VFF01LPAFPP	1000mL	PES	1.0μm	Yes	18
VFF150SMDNP	150mL	Hydrophilic PVDF	0.2μm	Yes	48
VFF250SMDNP	250mL	Hydrophilic PVDF	0.2μm	Yes	48
VFF500SMDNP	500mL	Hydrophilic PVDF	0.2μm	Yes	18
VFF01LSMDNP	1000mL	Hydrophilic PVDF	0.2μm	Yes	18
VFF150PDFSP	150mL	Hydrophilic PVDF	0.45μm	Yes	48
VFF250PDFSP	250mL	Hydrophilic PVDF	0.45μm	Yes	48
VFF500PDFSP	500mL	Hydrophilic PVDF	0.45μm	Yes	18
VFF01LPDFSP	1000mL	Hydrophilic PVDF	0.45μm	Yes	18

Receiver Flask Ordering Information

Part No.	Volume	Sterile	Qty/pk (pcs)
VFB1500000P	150mL receiver flask	Yes	48
VFB2500000P	250mL receiver flask	Yes	48
VFB5000000P	500mL receiver flask	Yes	18
VFB01L0000P	1000mL receiver flask	Yes	18

LUPW Capsule Filters

Typical Applications

· For lab water purification system

Technical Specifications

Membrane		PES
Pore size		0.1, 0.2μm
Shell		PP
Inlet/Outlet connection	LUPW / LUPWII	Inlet: 1/4"NPT ; Outlet: 6-13mm (1/4"-1/2") stepped HB with filling shell
	LUPWG	Inlet: 1/4"G ; Outlet: 6-13mm (1/4"-1/2") stepped HB with filling shell
	LUPWH	Inlet: 6-13mm (1/4"-1/2") stepped HB; Outlet: 6-13mm (1/4"-1/2") stepped HB with filling shell
Biosafety		Meet USP<87>, USP<88>

Ordering Information

Part No.	Membrane	Filtration area	Qty/pk (pcs)
LUPW-PES0020P	PES, 0.2μm	150 cm²	1
LUPWII-PES0020P	PES, 0.2μm	310 cm²	1
LUPWG-PES0022P	PES, 0.2μm	150 cm²	1
LUPWH-PES0022P	PES, 0.2μm	150 cm²	1

PP Reusable Filter Holder

Specifications

Material	Polypropylene
Effective Filtration Area	13.8 cm²
Membrane diameter	47mm
OD	60mm x 52mm
Inlet/Outlet	1/4" NPT thread; 1/4" NPT threaded male
O-ring	Silicone
Maximum Operating Pressure	0.5MPa @25℃

Ordering Information

Part No.	Description	Qty/pk (pcs)
47FH-S	PP reusable filter holder accept a 47mm membrane filer	1

H-DMF Disc Filter Holder

Material And Connect

Material	304
Exhaust Valve/Drain Valve	304
Clamp	304
Feet	304
Sealing Ring/Gasket	Silicon, Fluorine, EPDM
Joint	Through Screw
Inlet/Outlet	Quick Fitting
Exhaust Valve	Inner Diameter of 4mm, Connected to 8mm Tubing

Operating Conditions

Maximum Operating Pressure	0.6 Mpa (6.0 bar)
Maximum Operating Temp.	130℃ （266℉）
Sterilization	Can be autoclaved for 30mins at 121℃

Ordering Information

Part No.	Membrane	Diameter
H-DMF0147FTT25SAXP	Pressurized Disc Filter, Quick Fitting, Silicone Sealing Ring, Mirror Polish	47mm
H-DMF0190STT25SAXP	Pressurized Disc Filter, Quick Fitting, Silicone Sealing Ring, Mirror Polish	90mm
H-DMF01142FTT25SAXP	Pressurized Disc Filter, Quick Fitting, Silicone Sealing Ring, Mirror Polish	142mm

Ultrafiltration

Centrifugal Filters

Features

· High concentration factors -- 80-100 fold concentration can be easily achieved

· Fast concentration speed -- Generally in 10–60 mins

· High recovery rate -- A recovery rate of more than 90% can be achieved

· Low protein adsorption -- RC membrane and smooth inner wall design have extremelylow protein adsorption

· Complete specifications -- MWCO: 2kD, 3kD,10kD, 30kD, 50kD, 100kD, 300kD

Ordering Information

Part No.	MWCO	Specification	Color Code	Qty/pk (pcs)
ULRC0020150P	2kDa, RC Membrane	15mL	Sprout green	24
ULRC0030150P	3kDa, RC Membrane	15mL	Blue	24
ULRC0100150P	10kDa, RC Membrane	15mL	Red	24
ULRC0300150P	30kDa, RC Membrane	15mL	Yellow	24
ULRC0500150P	50kDa, RC Membrane	15mL	Orange	24
ULRC1000150P	100kDa, RC Membrane	15mL	Green	24
ULRC3000150P	300kDa, RC Membrane	15mL	Sky Blue	24
ULRC0020040P	2kDa, RC Membrane	4mL	Sprout green	15
ULRC0030040P	3kDa, RC Membrane	4mL	Blue	15
ULRC0100040P	10kDa, RC Membrane	4mL	Red	15
ULRC0300040P	30kDa, RC Membrane	4mL	Yellow	15
ULRC0500040P	50kDa, RC Membrane	4mL	Orange	15
ULRC1000040P	100kDa, RC Membrane	4mL	Green	15
ULRC3000040P	300kDa, RC Membrane	4mL	Sky Blue	15
ULRC0020020P	2kDa, RC Membrane	2mL		15
ULRC0030020P	3kDa, RC Membrane	2mL		15
ULRC0100020P	10kDa, RC Membrane	2mL		15
ULRC0300020P	30kDa, RC Membrane	2mL		15
ULRC0500020P	50kDa, RC Membrane	2mL		15
ULRC1000020P	100kDa, RC Membrane	2mL		15
ULRC3000020P	300kDa, RC Membrane	2mL		15
ULRC0020005P	2kDa, RC Membrane	0.5mL		24
ULRC0030005P	3kDa, RC Membrane	0.5mL		24
ULRC0100005P	10kDa, RC Membrane	0.5mL		24
ULRC0300005P	30kDa, RC Membrane	0.5mL		24
ULRC0500005P	50kDa, RC Membrane	0.5mL		24
ULRC1000005P	100kDa, RC Membrane	0.5mL		24
ULRC3000005P	300kDa, RC Membrane	0.5mL		24

Consieve UET TFF Cassette with PES Membrane

Consieve UET PES Cassette have high retention efficiency with low working volume and are easy to clean/install. Available in Lab and Flow format, both have same height and length screen type, easy to amplify based on specific process requirements. The inner gaskets make installation/cleaning/storage/replacement quick and easy. Low working volume and high efficiency ensure product yields.

Material

Membrane	PES
Screen	PP
Gasket	Silicone
Sealant	Silicone
Material Features	Low protein binding and high product yield High flux Broad chemical compatibility

Filters Type

Format	Abbr.	Available Size	R&D	Throughput	Notes
Lab	LA	100 cm² 200 cm² 0.11 m²	R&D R&D, Pilot	200-2000ml 200-2000ml 5-50L	Cassette, Stainless steel holder required
Flow	FL	0.46 m² 0.5 m² 2.33 m² 2.5 m²	Pilot, Process Pilot, Process	>50L >50L	

Ordering Information

Application	Format	Screen Type	NMWL	Type	Effective Filtration Area	Industry
UFE	**LA**	**0**	**001**		**001**	**P**
UFE Cobetter Consieve UET	LA Lab FL Flow	0 Standard Coarse Screen	001 1 kD 003 3 kD 005 5 kD 008 8 kD 010 10 kD 030 30 kD 050 50 kD 100 100 kD 300 300 kD 500 500 kD 01K 1000 kD	Blank	001 100 cm²(only Lab) 002 200 cm²(only Lab) 010 0.11 m²(only Lab) 050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	P Pharmaceutical
UFE Cobetter Consieve UET	FL Flow	0 Standard Coarse Screen		B	050 0.46 m²(only Flow) 055 0.50 m²(only Flow) 250 2.33 m²(only Flow) 270 2.50 m²(only Flow)	

Consieve UFC TFF Cassette with RC Membrane

Consieve UFC RC Cassette has the characteristics of high flux, strong anti-pollution ability, and easy cleaning. The cassette uses regenerated cellulose(RC) membrane material, which has very good hydrophilic properties and ultra-low protein binding and adsorption, lower leachables, and good solvent resistance make it suitable for ultrafiltration process of antibodies, recombinant proteins, blood and other biological applications. Low working volume and high efficiency ensure product ensure product yields.

Material

Membrane	Regenerated Cellulose(RC)
Screen	PP
Gasket	Silicone
Sealant	Silicone
Material Features	Low protein binding and high product yield High flux Special solvent resistance

Ordering Information

Application		Format		Screen Type		NMWL		Type	Effective Filtration Area		Industry	
UFC		LA		0		001			001		P	
UFC	Cobetter Consieve UFC	LA	Lab	0	Standard Coarse Screen	001	1 kD	Blank	001	100 cm²(only Lab)	P	Pharmaceutical
		FL	Flow			002	2 kD		002	200 cm²(only Lab)		
						003L	3 kDL		010	0.11 m²(only Lab)		
						003H	3 kDH		050	0.46 m²(only Flow)		
						003	3 kD		055	0.50 m²(only Flow)		
						005	5 kD		250	2.33 m²(only Flow)		
						008	8 kD		270	2.50 m²(only Flow)		
						010	10 kD					
						030	30 kD					
						100	100 kD					
UFC	Cobetter Consieve UFC	FL	Flow	O	Standard Coarse Screen	300	300 kD	B	050	0.46 m²(only Flow)		
									055	0.50 m²(only Flow)		
									250	2.33 m²(only Flow)		
									270	2.50 m²(only Flow)		

TFF Holders

A 0.01m² Ultrafiltration Cassttes Holder

· Can load 0-10 pieces of 0.01m² cassettes or 1 piece of 0.11m² cassette

· For process development and small-volume pharmaceutical production

B 0.11m² Ultrafiltration Cassttes Holder

· Can load 0-5 pieces of 0.11m² cassettes

· For process development and small-volume pharmaceutical production

· Dimensions: 14x11.5x26 cm (length * width * height)

· Weight: 5 kg

C 0.5m² Ultrafiltration Cassttes Holder

· Can load 0-5 pieces of 0.5m² cassettes or 1 piece of 2.5m² cassette

· Dimensions: 28x19x25 cm (length * width * height)

· Weight: 24 kg

Ordering Information

Part No.	Description	Package
H-MB001-L-LP	0.01m² Holder, with Three Valves and Two Gauges. Two pressure gauges, monitoring range: 0-4 bar; Three PP manual extrusion valves, suitable for 16# hose	1
H-MB011T25-LP	0.11m² Holder, with Three Valves and Two Gauges. Two pressure gauges, monitoring range: 0-6 bar; Three PP manual extrusion valves, Fujikin, Connector: TC25. Pipe Diameter: 1/2 inch. PTFE+EPDM diaphragm	1
H-MB050T25-LP	0.5m² Holder, with Three Valves and Two Gauges. Two pressure gauges. Monitoring range: 0-6 bar; Three PP manual extrusion valves, Fujikin. Connector: TC25. Pipe Diameter: 3/4 inch. PTFE+EPDM diaphragm	1
UFAK001-53	Accessory Kit for 0.01m² Ultrafiltration Cassette Holder, including cleaning gasket x3, torque wrench x1, squeeze valve x2	1
UFAK011-54	Accessory Kit for 0.11m² Ultrafiltration Cassette Holder, including cleaning gasket x3, torque wrench x1, clamp gasket x5, diaphragm valve diaphragm x1, clamp x5	1
UFAK050-55	Accessory Kit for 0.5m² Ultrafiltration Cassette Holder, including cleaning gasket x3, torque wrench x1, clamp gasket x5, diaphragm valve diaphragm x1, clamp x5	1
FCG001-28	0.01m² Holder Cleaning Gasket, made of silicone.	1
FCG011-28	0.11m² Holder Cleaning Gasket, made of silicone.	1
FCG050-27	0.5m² Holder Cleaning Gasket, made of silicone.	1
FCP011-89	0.11m² Holder Flush Plate (316 L)	1
FCP050-13	0.5m² Holder Flush Plate (316 L)	1
DD011-51	0.11m² Disposable diverter plate	1
DD011-52	0.5m² Disposable diverter plate	1

Hollow Fiber Filters

Features

· High flow rate, high filtration capacity
· Modified hydrophilic PES hollow fiber membrane provides low protein adsorption, less membrane fouling and easy cleaning
· Integrated device without additional assembly or device holder, quick installation and operation
· Re-washable with 0.5M NaOH solution
· Simple and reliable linear scale-up

Typical Applications

· Purification, concentration and diafiltration of vaccine
· Purification, concentration and diafiltration of viral vector
· Clarification of cells and bacterial in fermentation broth
· Recycling and washing of cells and bacteria
· Concentration and diafiltration of protein

Specifications

	Fiber ID	Effective Length	Recommended Batch	Feed/Retentate Connectors	Permeate Connectors	MWCO/ Pore Size
Mini	0.5mm 1.0mm	30cm 60cm	<300mL <600mL	Female Luer Connector	Female Luer Connector	3kDa 5kDa 10kDa 30kDa 50kDa 100kDa 300kDa 500kDa 750 kDa
Minilab	0.5mm 1.0mm	30cm 60cm	<1L <2L	Female Luer Connector	Female Luer Connector	
Lab	0.5mm 1.0mm	30cm 60cm	<2L <4L	0.5" TC	3/16" HB	
Lab+	0.5mm 1.0mm	30cm 60cm	<8L <16L	0.5" TC	3/16" HB	
Pilot	0.5mm 1.0mm	30cm 60cm 110cm	<15L <30L <50L	1.5" TC	0.5" TC	
Pilot+	0.5mm 1.0mm	30cm 60cm 110cm	<15L <50L <80L	1.5" TC	0.5" TC	
MiniProcess	0.5mm 1.0mm	30cm 60cm 110cm	<75L <150L <250L	1.5" TC	0.5" TC	0.1µm 0.2µm 0.45µm 0.65µm
MidiProcess	0.5mm 1.0mm	30cm 60cm 110cm	<120L <200L <400L	1.5" TC	1.0" TC	
Process	0.5mm 1.0mm	30cm 60cm 110cm	<200L <500L <800L	1.5" TC	1.0" TC	
Maxi	0.5mm 1.0mm	60cm 110cm	<800L <1500L	2.0" TC	1.5" TC	

Hollow Fiber Filter Ordering Information

Product type	Membrane	Module	MWCO	Fiber Inner Lumen	Effective Length	P
□□	□	□□	□□□□	□□	□□	P
HF Hollow Fiber	E PES	MN Mini	0003 3kD	05 0.5mm	30 30cm	P Pharmaceutical
		MI Minilab	0005 5kD	10 1.0mm	60 60cm	
		LA Lab	0010 10kD		11 110cm	
		LP Lab+	0030 30kD			
		PI Pilot	0050 50kD			
		PP Pilot+	0100 100kD			
		MP Miniprocess	0300 300kD			
		DP Midprocess	0500 500kD			
		PR Process	0750 750kD			
		MA Maxi				

HF-E-XX-XXXX-XX-XX-P e.g.: HFELA05000560P

Microfiltration Hollow Fiber Filter (Suitable for Chemical Cleaning) Ordering Information

Product type	Membrane	Module	MWCO	Fiber Inner Lumen	Effective Length	P
□□	□	□□	□□□□	□□	□□	P
HF Hollow Fiber	E PES	MN Mini	M010 0.10μm	10 1.0mm	30 30cm	P Pharmaceutical
		MI Minilab	M020 0.20μm		60 60cm	
		LA Lab	M045 0.45μm		11 110cm	
		LP Lab+	M065 0.65m			
		PI Pilot	M20R 0.20μm-R			
		PP Pilot+				

HF-E-XX-XXXX-XX-XX-P e.g.:HFEMIM20R1060

Hollow Fiber Filter (Autoclavable) Ordering Information

Product type	Membrane	Module	MWCO	Fiber Inner Lumen	Effective Length	Sterilization	P
□□	□	□□	□□□□	□□	□□	A	P
HF Hollow Fiber	E PES	MN Mini	750R 750kD-R	10 1.0mm	30 30cm	A Autoclavable	P Pharmaceutical
		MI Minilab	M20R 0.20μm-R		60 60cm		
		LA Lab			11 110cm		
		LP Lab+					
		PI Pilot					
		PP Pilot+					
		CM Columm Max					

HF-E-XX-XXXX-XX-XX-A-P e.g.:HFEMIM20R1060AP

Microbiology Testing

In the pharmaceutical and biotechnology industries, microbiological analysis is critical in drug development and quality control. Cobetter offers a complete range of sterile packaging microbiological testing filters, cups, and holders. It can greatly improve your productivity and the safety of critical processes.

Sterile Gridded Membrane Filter

Gridded MCE Membrane Filter, Sterile Packaged

Features

· High microbial recovery
· High flow rate
· Quality certification report
· Sterilization by Gamma irradiation

Ordering Information

Part No.	Membrane	Diameter	Pore Size	Package	Qty/pk(pcs)
MBWGM-2247S	MCE, white with black grid	47mm	0.22μm	Individually packed	100
MBWGM-4547S	MCE, white with black grid	47mm	0.45μm	Individually packed	100
MBWGM-2250S	MCE, white with black grid	50mm	0.22μm	Individually packed	100
MBWGM-4550S	MCE, white with black grid	50mm	0.45μm	Individually packed	100
MBMCE-2247S	MCE, white membrane	47mm	0.22μm	Individually packed	100
MBMCE-4547S	MCE, white membrane	47mm	0.45μm	Individually packed	100
MBMCE-2250S	MCE, white membrane	50mm	0.22μm	Individually packed	100
MBMCE-4550S	MCE, white membrane	50mm	0.45μm	Individually packed	100
MBWGM-2247	MCE, white with black grid	47mm	0.22μm	Non-sterile	100
MBWGM-4547	MCE, white with black grid	47mm	0.45μm	Non-sterile	100
MBWGM-2250	MCE, white with black grid	50mm	0.22μm	Non-sterile	100
MBWGM-4550	MCE, white with black grid	50mm	0.45μm	Non-sterile	100
MBLGM-2247S	MCE, black with white grid	47mm	0.22μm	Individually packed	100
MBLGM-4547S	MCE, black with white grid	47mm	0.45μm	Individually packed	100
MBWGM-2247SC	MCE, white with black grid	47mm	0.22μm	Packed on a pleated band	150
MBWGM-4547SC	MCE, white with black grid	47mm	0.45μm	Packed on a pleated band	150
MBLGM-2247SC	MCE, black with white grid	47mm	0.22μm	Packed on a pleated band	150
MBLGM-4547SC	MCE, black with white grid	47mm	0.45μm	Packed on a pleated band	150

Membrane Dispenser

Cobetter Membrane Dispenser can automatically remove the membrane by automatic infrared sensing or the touch of a button, avoiding the risk of contamination during the filter removal process. The membrane dispenser has a compact structure, small space, smooth appearance, and easy to clean.

Part No.	Description	Qty/pk (pcs)
MD01AU	Membrane Dispenser	1

All-in-on Filters Filtration Units

Cobetter Microbial All-in-on Filters Filtration Units integrate 47mm, 0.45µm grid membrane and plastic filter funnel, which is economical, convenient and easy to operate.

Material PP

Features

· Scale is clearly marked, convenient for accurate sample quantity
· Sterile packaged, safe and reliable
· Ready to use
· Effectively reduce the risk of secondary pollution

Ordering Information

Part No.	Description	Membrane	Qty/pk (pcs)
A47V-GMC0022100	Ready-to-use filters, 100mL	MCE, white with black grid，47mm, 0.22µm	5
A47V-GMC0045100	Ready-to-use filters, 100mL	MCE, white with black grid，47mm, 0.45µm	5
A47V-GMC0022250	Ready-to-use filters, 250mL	MCE, white with black grid，47mm, 0.22µm	5
A47V-GMC0045250	Ready-to-use filters, 250mL	MCE, white with black grid，47mm, 0.45µm	5

Filter Funnels

Cobetter Filter Funnels can be repeatedly sterilized for daily microbial testing in the fields of biopharmaceuticals, food and beverage, and environmental monitoring.

Ordering Information

Part No.	Description	Qty/pk (pcs)
A47U-100	Sterile packaged funnels, 100mL	10
A47U-250	Sterile packaged funnels, 100mL	10

S58 Microbiology Filter Unit

The filter membrane and petri dish are integrated, the filter funnel can be removed directly after the sample is filtered, and the base can be converted into a petri dish, and the medium is added for culture. Every filter unit is individually packaged and ready for use. It is easy to operate and minimizes the risk of secondary contamination.

Materials   Funnel/Base   PP
             Cap   PETG

Ordering Information

Part No.	Description	Membrane	Qty/pk (pcs)
S58-WGMCE0045P	Filter funnels sterile,100mL,white /black grid	MCE	1
S58-PVDF0045P	Filter funnels sterile,100mL,white /black grid	PVDF	1

SS Manifold

Cobetter Stainless Steel Manifold is made of high-quality stainless steel and in a single material that ensures a long working life in the laboratory.

Specifications

	3 Branches	5 Branches
Material	Stainless Steel 316L	Stainless Steel 316L
Dimensions(L x H x W)	474 x 120 x 98 mm	924 x 120 x 98 mm
Weight	0.725 kg	1.400 kg
Sterilization	Autoclave 121°C, 30 min	Autoclave 121°C, 30 min

Ordering Information

Part No.	Description	Qty/pk (pcs)
M301SS	3 branch manifold suitable for A47V, A47U consumables, interconnect	1

Lifemeta™ Tubing

Regulatory Compliance

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 USP <87> In Vitro Biological Reactivity Test.
USP <88> Biological Reactivity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics.
ISO 10993-4	Meet the requirement of ISO 10993-4 In Vitro Hemolytic Test.
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.

Lifemeta™ STT Platinum Cured Silicone Tubing

Cobetter Lifemeta™ STT platinum-cured silicone tubing is designed for efficient fluid transfer. The product is manu factured using high-purity medical-grade raw materials through advanced extrusion equipment and molding tools, and can withstand extreme temperatures, a wide range of acid-alkali salts, organic solvents, and radiation, while also exhibiting good resilience and tear resistance, suitable for use in peristaltic pumps. The Lifemeta™ STT tubing is semi-transparent with a smooth internal surface, providing a reliable solution for low adsorption applications.

Physical characteristics

Item	Value	Procedure
Durometer Hardness (Shore A)	60 ± 5	ASTM D2240
Burst Strength	0.4-0.9 MPa	ASTM D380
Tensile Strength	7.05-8.96 MPa	ASTM D412
Elongation at Break	378-443 %	ASTM D412
Vacuum Resistance	> 30 kPa	ISO 7233: 2016
Temperature Range	-51-232 °C	

Note: Please refer to the validation guide document for detailed test methods and results.

Lifemeta™ STT Ordering Information

Part No.	I.D.		O.D.		Wall Thickness		Tube Number	Packaging*	Qty
	In.	mm.	In.	mm.	In.	mm.			m/pk
STT0816150N	1/32"	0.8	5/32"	4.0	1/16"	1.6	13#	Non-sterile	15
STT1216150N	3/64"	1.2	11/64"	4.4	1/16"	1.6	/	Non-sterile	15
STT1616150N	1/16"	1.6	3/16"	4.8	1/16"	1.6	14#	Non-sterile	15
STT1624150N	1/16"	1.6	1/4"	6.4	3/32"	2.4	119#	Non-sterile	15
STT2416150N	3/32"	2.4	7/32"	5.6	1/16"	1.6	19#	Non-sterile	15
STT2424150N	3/32"	2.4	9/32"	7.1	3/32"	2.4	/	Non-sterile	15
STT3060150N	/	3.0	/	6.0	/	1.5	/	Non-sterile	15
STT3224150N	1/8"	3.2	5/16"	8.0	3/32"	2.4	120#	Non-sterile	15
STTL150N	1/8"	3.2	1/4"	6.4	1/16"	1.6	16#	Non-sterile	15
STT25150N	3/16"	4.8	5/16"	8.0	1/16"	1.6	25#	Non-sterile	15
STT15150N	3/16"	4.8	3/8"	9.6	3/32"	2.4	15#	Non-sterile	15
STT4832150N	3/16"	4.8	7/16"	11.2	1/8"	3.2	/	Non-sterile	15
STT17150N	1/4"	6.4	3/8"	9.6	1/16"	1.6	17#	Non-sterile	15
STTR150N	1/4"	6.4	7/16"	11.2	3/32"	2.4	24#	Non-sterile	15
STT26150N	1/4"	6.4	1/2"	12.7	1/8"	3.2	26#	Non-sterile	15
STT35150N	5/16"	8.0	1/2"	12.7	3/32"	2.4	35#	Non-sterile	15
STT36150N	3/8"	9.6	9/16"	14.4	3/32"	2.4	36#	Non-sterile	15
STTY150N	3/8"	9.6	5/8"	15.9	1/8"	3.2	73#	Non-sterile	15
STTH150N	1/2"	12.7	3/4"	19.1	1/8"	3.2	82#	Non-sterile	15
STTE150N	1/2"	12.7	11/16"	17.5	3/32"	2.4	/	Non-sterile	15
STTX150N	5/8"	15.9	7/8"	22.2	1/8"	3.2	184#	Non-sterile	15
STTN150N	3/4"	19.1	1"	25.4	1/8"	3.2	90#	Non-sterile	15
STTM100N	3/4"	19.1	1-1/8"	28.6	3/16"	4.8	191#	Non-sterile	10
STTD050N	1"	25.4	1-3/8"	34.9	3/16"	4.8	92#	Non-sterile	5

Note: The table is the standard product number for sale, if you need special specifications (length, sterile packaging),
please communicate the requirements in advance.
* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation,
and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:
1.Non-sterile: STT0816150N
2.Sterile:STT0816150S

Lifemeta™ STF TPE tubing

Cobetter Lifemeta™ STF TPE tubing is a high-performance flexible tube extruded from medical-grade thermoplastic elastomer (TPE) material, with excellent heat sealing and sterile welding performance. Its inner wall is smooth and low-flaking. The Lifemeta™ STF has demonstrated considerable welding compatibility and weldability in comparison to the leading TPE tubes in the market. Compared with traditional silicone and PVC tubes, this product has wide chemical compatibility and can maintain excellent physicochemical performance under various working conditions.

Physical characteristics

Item	Value	Procedure
Durometer Hardness (Shore A)	60 ± 5	ASTM D2240
Burst Strength	0.4-0.6 MPa	ASTM D380
Tensile Strength	5.17-5.18 MPa	ASTM D412
Elongation at Break	742-776 %	ASTM D412
Vacuum Resistance	> 30 kPa	ISO 7233: 2016
Temperature Range	-50-140 °C	

Note: Please refer to the validation guide document for detailed test methods and results.

Lifemeta™ STF Ordering Information

Part No.	I.D. In.	I.D. mm.	O.D. In.	O.D. mm.	Wall Thickness In.	Wall Thickness mm.	Tube Number	Packaging*	Qty m/pk
STFL150N	1/8"	3.2	1/4"	6.4	1/16"	1.6	16#	Non-sterile	15
STF25150N	3/16"	4.8	5/16"	8.0	1/16"	1.6	25#	Non-sterile	15
STF15150N	3/16"	4.8	3/8"	9.6	3/32"	2.4	15#	Non-sterile	15
STF17150N	1/4"	6.4	3/8"	9.6	1/16"	1.6	17#	Non-sterile	15
STFR150N	1/4"	6.4	7/16"	11.2	3/32"	2.4	24#	Non-sterile	15
STF26150N	1/4"	6.4	1/2"	12.7	1/8"	3.2	26#	Non-sterile	15
STF35150N	5/16"	8.0	1/2"	12.7	3/32"	2.4	35#	Non-sterile	15
STFY150N	3/8"	9.6	5/8"	15.9	1/8"	3.2	73#	Non-sterile	15
STFH150N	1/2"	12.7	3/4"	19.1	1/8"	3.2	82#	Non-sterile	15
STFN150N	3/4"	19.1	1"	25.4	1/8"	3.2	90#	Non-sterile	15
STFM100N	3/4"	19.1	1-1/8"	28.6	3/16"	4.8	191#	Non-sterile	10
STFD050N	1"	25.4	1-3/8"	34.9	3/16"	4.8	92#	Non-sterile	5

Note: The table is the standard product number for sale, if you need special specifications (length, sterile packaging), please communicate the requirements in advance.

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:
1. Non-sterile: STFL150N
2. Sterile:STFL150S

Lifemeta™ ST5P Pt-cured Silicone Pump Tubing

Cobetter Lifemeta™ ST5P Pt-cured silicone pump tubing can be used in process applications such as ultrapure liquid transfer in production, aseptic filling, packaging and other single-use systems. Fluid transmission is mainly carried out through a peristaltic pump, which reduces the risk of fluid contacting any part of the pump body. Good wear resistance can reduce damage to the outer wall of the tubing, thereby improving the overall transmission efficiency of the filtration system.

Physical characteristics

Item	Value	Procedure
Durometer Hardness (Shore A)	50 ± 5	ASTM D2240
Burst Strength	0.74-0.97 MPa	ASTM D380
Vacuum Resistance	> 75 kPa	ISO 7233: 2016
Temperature Range	-51-232 °C	

Note: Please refer to the validation guide document for detailed test methods and results.

Lifemeta™ ST5P Ordering Information

Part No.	I.D.		O.D.		Wall Thickness		Tube Number	Packaging*	Qty m/pk
	In.	mm.	In.	mm.	In.	mm.			
ST5P0816150N	1/32"	0.8	5/32"	4.0	1/16"	1.6	13#	Non-sterile	15
ST5P0824150N	1/32"	0.8	7/32"	5.6	3/32"	2.4	/	Non-sterile	15
ST5P1216150N	3/64"	1.2	11/64"	4.4	1/16"	1.6	/	Non-sterile	15
ST5P1616150N	1/16"	1.6	3/16"	4.8	1/16"	1.6	14#	Non-sterile	15
ST5P1624150N	1/16"	1.6	1/4"	6.4	3/32"	2.4	119#	Non-sterile	15
ST5P2416150N	3/32"	2.4	7/32"	5.6	1/16"	1.6	19#	Non-sterile	15
ST5P2424150N	3/32"	2.4	9/32"	7.1	3/32"	2.4	/	Non-sterile	15
ST5P3224150N	1/8"	3.2	5/16"	8.0	3/32"	2.4	120#	Non-sterile	15
ST5P3218150N	1/8"	3.2	/	6.8	/	1.8	/	Non-sterile	15
ST5PL150N	1/8"	3.2	1/4"	6.4	1/16"	1.6	16#	Non-sterile	15
ST5P25150N	3/16"	4.8	5/16"	8.0	1/16"	1.6	25#	Non-sterile	15
ST5P4820150N	3/16"	4.8	/	8.8	/	2.0	/	Non-sterile	15
ST5P15150N	3/16"	4.8	3/8"	9.6	3/32"	2.4	15#	Non-sterile	15
ST5P4832150N	3/16"	4.8	7/16"	11.2	1/8"	3.2	/	Non-sterile	15
ST5P17150N	1/4"	6.4	3/8"	9.6	1/16"	1.6	17#	Non-sterile	15
ST5PR150N	1/4"	6.4	7/16"	11.2	3/32"	2.4	24#	Non-sterile	15
ST5P26150N	1/4"	6.4	1/2"	12.7	1/8"	3.2	26#	Non-sterile	15
ST5P35150N	5/16"	8.0	1/2"	12.7	3/32"	2.4	35#	Non-sterile	15
ST5P36150N	3/8"	9.6	9/16"	14.4	3/32"	2.4	36#	Non-sterile	15
ST5PY150N	3/8"	9.6	5/8"	15.9	1/8"	3.2	73#	Non-sterile	15
ST5PH150N	1/2"	12.7	3/4"	19.1	1/8"	3.2	82#	Non-sterile	15
ST5PE150N	1/2"	12.7	11/16"	17.5	3/32"	2.4	/	Non-sterile	15
ST5PX150N	5/8"	15.9	7/8"	22.2	1/8"	3.2	184#	Non-sterile	15
ST5PN150N	3/4"	19.1	1"	25.4	1/8"	3.2	90#	Non-sterile	15
ST5PM100N	3/4"	19.1	1-1/8"	28.6	3/16"	4.8	191#	Non-sterile	10
ST5PD050N	1"	25.4	1-3/8"	34.9	3/16"	4.8	92#	Non-sterile	5

Note: The table is the standard product number for sale, if you need special specifications (length, sterile packaging), please communicate the requirements in advance.

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:

1. Non-sterile: ST5P0816150N

2.Sterile:ST5P0816150S

Lifemeta™ ST8H High Pressure Silicone Tubing

Cobetter Lifemeta™ ST8H high pressure silicone tubing is a high-quality, cost-effective fluid transfer solution. It can be used to increase the flow rate during the production process and reduce the liquid transfer time. ST8H high pressure silicone tubing is the optimal choice for single-use applications such as TFF, virus filtration, inline integrity testing of filtration assemblies, and high volume fluid transfer.

Physical characteristics

Item	Value	Procedure
Durometer Hardness (Shore A)	82 ± 5	ASTM D2240
Burst Strength	0.6-1.6 MPa	ASTM D380
Vacuum Resistance	> 80 kPa	ISO 7233: 2016
Temperature Range	-51-232 °C	

Note: Please refer to the validation guide document for detailed test methods and results.

Lifemeta™ ST8H Ordering Information

Part No.	I.D. In.	I.D. mm.	O.D. In.	O.D. mm.	Wall Thickness In.	Wall Thickness mm.	Tube Number	Packaging*	Qty m/pk
ST8H3224150N	1/8"	3.2	5/16"	8.0	3/32"	2.4	120#	Non-sterile	15
ST8H15150N	3/16"	4.8	3/8"	9.6	3/32"	2.4	15#	Non-sterile	15
ST8H4832150N	3/16"	4.8	7/16"	11.2	1/8"	3.2	/	Non-sterile	15
ST8HR150N	1/4"	6.4	7/16"	11.2	3/32"	2.4	24#	Non-sterile	15
ST8H26150N	1/4"	6.4	1/2"	12.7	1/8"	3.2	26#	Non-sterile	15
ST8H35150N	5/16"	8.0	1/2"	12.7	3/32"	2.4	35#	Non-sterile	15
ST8H36150N	3/8"	9.6	9/16"	14.4	3/32"	2.4	36#	Non-sterile	15
ST8HY150N	3/8"	9.6	5/8"	15.9	1/8"	3.2	73#	Non-sterile	15
ST8HH150N	1/2"	12.7	3/4"	19.1	1/8"	3.2	82#	Non-sterile	15
ST8HE150N	1/2"	12.7	11/16"	17.5	3/32"	2.4	/	Non-sterile	15
ST8HX150N	5/8"	15.9	7/8"	22.2	1/8"	3.2	184#	Non-sterile	15
ST8HN150N	3/4"	19.1	1"	25.4	1/8"	3.2	90#	Non-sterile	15
ST8HM100N	3/4"	19.1	1-1/8"	28.6	3/16"	4.8	191#	Non-sterile	10
ST8HD050N	1"	25.4	1-3/8"	34.9	3/16"	4.8	92#	Non-sterile	5

Note: The table is the standard product number for sale, if you need special specifications (length, sterile packaging), please communicate the requirements in advance.

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:
1. Non-sterile: ST8H3224150N
2. Sterile: ST8H3224150S

Tube Fitting

Cobetter Lifemeta™ SF single-use tube fitting can efficiently assemble with silicone tubings, TPE tubings, reinforced braided silicone tubings, and other tubings to meet various application needs. The fittings are mainly made of polypropylene (PP) or polysulfone (PSF) with excellent mechanical strength and good chemical compatibility, ensuring long-term use. Cobetter is self-produced with reliable quality and meets multiple regulatory requirements. Special sizes can be customized according to customer needs, with fast mold opening and short delivery cycle.

Regulatory Compliance

Bacterial Endotoxin	Aqueous extraction contains < 0.06 EU/mL as determined by Amebocyte Lysate, USP <85>.
USP <87> Cytotoxicity	Meet the requirement of USP <87> In Vitro Biological Reactivity Test.
USP <88> Biological Reactivity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI plastics.
Indirect Food Additive	The fluid contact component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177−182.
Animal Derivative Content	Products do not contain animal derived components and are free from TSE risk.
Sterilization	Can be autoclaved 1 cycle for 30 minutes at 130 °C. or Can be sterilized by gamma irradiation at 25-45 kGy.
Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001:2015 Practices.
Manufacturing Process	Manufacturing in the ISO Class 7 clean zones

Luer Fitting
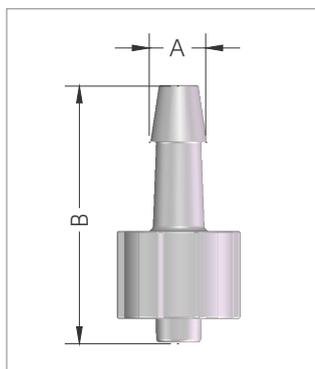
Male Luer Lock
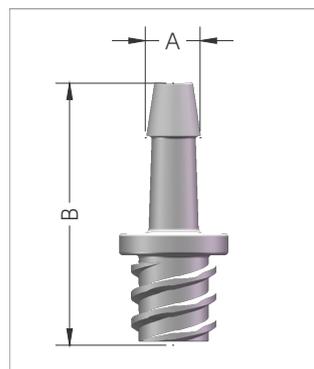
Female Luer Lock

Luer Fitting

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）	
				AΦ	B
SFLLP5N	1/8"HB × Male Luer Lock	Non-sterile	50	5.0	22.9
SFLRP5N-A	1/4"HB × Male Luer Lock	Non-sterile	50	8.9	29.7
SFLLC5N	1/8"HB × Female Luer Lock	Non-sterile	50	5.0	24.0
SFLRC5N	1/4"HB × Female Luer Lock	Non-sterile	50	8.9	29.0
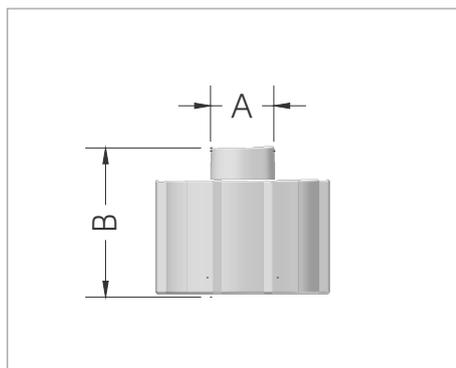
Luer Plug

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）	
				AΦ	B
SFPC5N	Female Luer Plug	Non-sterile	50	4.3	9.2
SFPP5N-A	Male Luer Plug	Non-sterile	50	4.0	9.4

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:

1. Non-sterile: SFLLP5N

2. Sterile: SFLLP5S

Tri-clamp Fitting
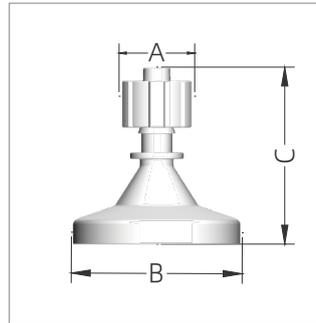
TC × Male Luer Lock
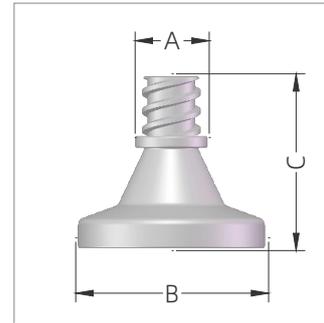
TC × Female Luer Lock

Luer to Tri-clamp Fitting

Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	BΦ	C
SFLPT1N(-S)	3/4"TC × Male Luer Lock	Non-sterile	10	11.0	25.0	26.0
SFLCT1N(-S)	3/4"TC × Female Luer Lock	Non-sterile	10	9.6	25.0	23.0
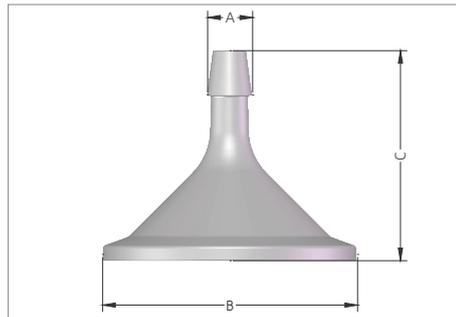
Hose Barb to Tri-clamp Fitting

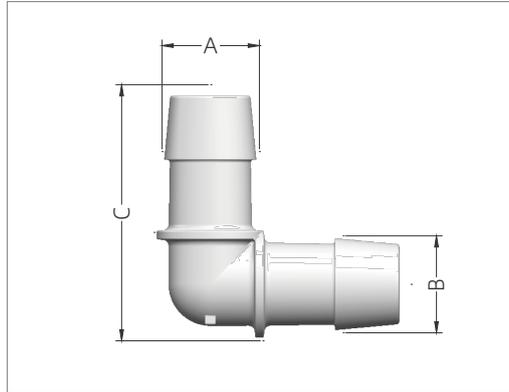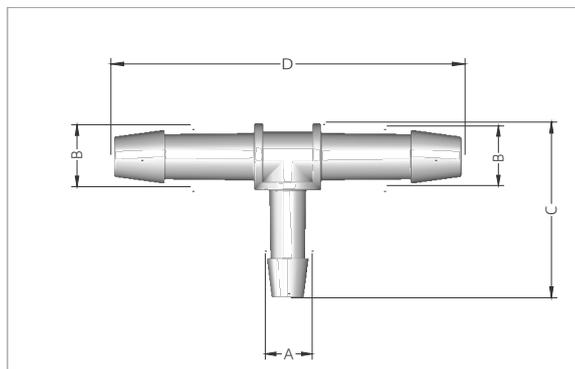| Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	BΦ	C
SFLLT1N(-S)	1/8"HB × 3/4"TC	Non-sterile	10	4.2	25.0	28.0
SFLRT1N(-S)	1/4"HB × 3/4"TC	Non-sterile	10	8.9	25.0	30.0
SFLYT1N(-S)	3/8"HB × 3/4"TC	Non-sterile	10	12.4	25.0	42.6
SFLHT1N(-S)	1/2"HB × 3/4"TC	Non-sterile	10	16.0	25.0	47.6
SFLMT1N(-S)	3/4"HB × 3/4"TC	Non-sterile	10	23.7	25.0	55.0
SFLRS1N(-S)	1/4"HB × 1-1/2"TC	Non-sterile	10	8.9	50.4	41.7
SFLYS1N(-S)	3/8"HB × 1-1/2"TC	Non-sterile	10	12.4	50.4	41.7
SFLHS1N(-S)	1/2"HB × 1-1/2"TC	Non-sterile	10	16.0	50.4	47.6
SFLMS1N(-S)	3/4"HB × 1-1/2"TC	Non-sterile	10	23.7	50.4	56.0
SFLDS1N(-S)	1"HB × 1-1/2"TC	Non-sterile	10	30.0	50.4	68.0

*Part No. This product is available in polypropylene (PP) and polysulfone (PSF), and is available in sterile and non-sterile packaging.

The reference for naming different types of product numbers is as follows:

1. PP material/Non-sterile: SFLPT1N

2. PP material/Sterile: SFLPT1S

3. PSF material/Non-sterile: SFLPT1N-S

4. PSF material/Sterile: SFLPT1S-S

**Packaging: Can be gamma irradiated at 25-45 kGy in sterile package.

Straight Tube Fitting
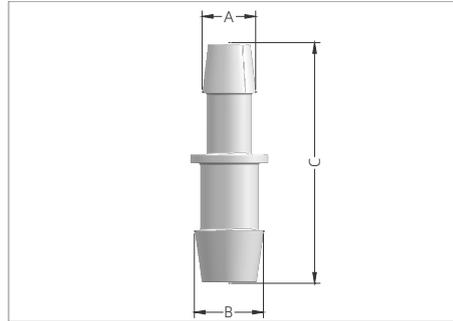
Equal Barbed Straight Tube Fitting

Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	BΦ	C
SFLLL5N (-S)	1/8"HB × 1/8"HB	Non-sterile	50	5.0	5.0	27.0
SFLRR5N (-S)	1/4"HB × 1/4"HB	Non-sterile	50	8.9	8.9	42.0
SFLYY5N (-S)	3/8"HB × 3/8"HB	Non-sterile	50	12.4	12.4	54.0
SFLHH5N (-S)	1/2"HB × 1/2"HB	Non-sterile	50	16.0	16.0	58.0
SFLMM5N (-S)	3/4"HB × 3/4"HB	Non-sterile	50	21.8	21.8	84.0
SFLDD5N (-S)	1"HB × 1"HB	Non-sterile	50	27.9	27.9	101.4

Reducer Straight Tube Fitting

Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	BΦ	C
SFLAY5N (-S)	1/16"HB × 3/8"HB	Non-sterile	50	2.6	11.0	39.0
SFLQL5N (-S)	3/32"HB × 1/8"HB	Non-sterile	50	3.5	5.0	23.5
SFLLR5N (-S)	1/8"HB × 1/4"HB	Non-sterile	50	5.0	8.9	38.0
SFLLY5N (-S)	1/8"HB × 3/8"HB	Non-sterile	50	5.0	12.4	47.1
SFLEY1N (-S)	3/16"HB × 3/8"HB	Non-sterile	50	6.4	11.0	47.0
SFLRY5N (-S)	1/4"HB × 3/8"HB	Non-sterile	50	8.9	12.4	48.0
SFLRH5N (-S)	1/4"HB × 1/2"HB	Non-sterile	50	8.9	16.0	50.0
SFLYH5N (-S)	3/8"HB × 1/2"HB	Non-sterile	50	12.4	16.0	56.0
SFLYX5N (-S)	3/8"HB × 5/8"HB	Non-sterile	50	11.0	18.2	68.0
SFLHX5N (-S)	1/2"HB × 5/8"HB	Non-sterile	50	14.6	18.2	72.0
SFLHM5N (-S)	1/2"HB × 3/4"HB	Non-sterile	50	14.6	21.8	77.2
SFLMD5N (-S)	3/4"HB × 1"HB	Non-sterile	50	21.8	28.0	96.0

*Part No. This product is available in polypropylene (PP) and polysulfone (PSF), and is available in sterile and non-sterile packaging.
 The reference for naming different types of product numbers is as follows:

1. PP material/Non-sterile: SFLLL5N

2. PP material/Sterile: SFLLL5S

3. PSF material/Non-sterile: SFLLL5N-S

4. PSF material/Sterile: SFLLL5S-S

**Packaging: Can be gamma irradiated at 25-45 kGy in sterile package

Elbow Fitting

Elbow Fitting

Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	BΦ	C
SFELL5N (-S)	1/8"HB × 1/8"HB	Non-sterile	50	4.8	4.8	15.8
SFEEE5N (-S)	3/16"HB × 3/16"HB	Non-sterile	50	6.4	6.4	20.9
SFERR5N (-S)	1/4"HB × 1/4"HB	Non-sterile	50	7.6	7.6	27.2
SFEYY5N (-S)	3/8"HB × 3/8"HB	Non-sterile	50	11.0	11.0	36.1
SFEHH5N (-S)	1/2"HB × 1/2"HB	Non-sterile	50	14.6	14.6	43.3
SFEMM5N (-S)	3/4"HB × 3/4"HB	Non-sterile	50	21.8	21.8	57.6
SFEDD5N (-S)	1"HB × 1"HB	Non-sterile	50	28.0	28.0	70.0

*Part No. This product is available in polypropylene (PP) and polysulfone (PSF), and is available in sterile and non-sterile packaging.

The reference for naming different types of product numbers is as follows:

1. PP material/Non-sterile: SFELL5N

2. PP material/Sterile: SFELL5S

3. PSF material/Non-sterile: SFELL5N-S

4. PSF material/Sterile: SFELL5S-S

**Packaging: Can be gamma irradiated at 25-45 kGy in sterile package

Tee Fitting

Equal Barbed T-Fitting

Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions（mm）			
				AΦ	BΦ	C	D
SFTRRR5N (-S)	1/4"HB × 1/4"HB × 1/4"HB	Non-sterile	50	8.9	8.9	31.4	52.2
SFTYYY5N (-S)	3/8"HB × 3/8"HB × 3/8"HB	Non-sterile	50	12.4	12.4	40.9	67.4
SFTHHH5N (-S)	1/2"HB × 1/2"HB × 1/2"HB	Non-sterile	50	14.6	14.6	43.0	69.0
SFTDDD5N (-S)	1"HB × 1"HB × 1"HB	Non-sterile	50	28.0	28.0	70.5	110.0

Reducer T-Fitting

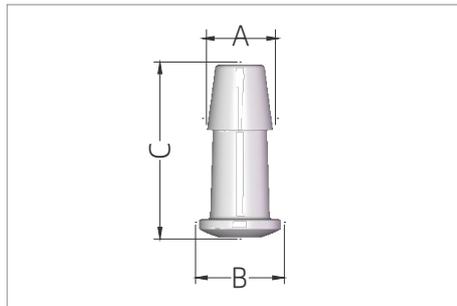| Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions（mm）			
				AΦ	BΦ	C	D
SFTYYR5N (-S)	3/8"HB × 3/8"HB × 1/4"HB	Non-sterile	50	8.9	12.4	39.2	80.2
SFTHHR5N (-S)	1/2"HB × 1/2"HB × 1/4"HB	Non-sterile	50	7.6	14.6	39.9	69.0
SFTHHY5N (-S)	1/2"HB × 1/2"HB × 3/8"HB	Non-sterile	50	11.0	14.6	34.7	69.0

*Part No. This product is available in polypropylene (PP) and polysulfone (PSF), and is available in sterile and non-sterile packaging.

The reference for naming different types of product numbers is as follows:

1. PP material/Non-sterile: SFTRRR5N

2. PP material/Sterile: SFTRRR5S

3. PSF material/Non-sterile: SFTRRR5N-S

4. PSF material/Sterile: SFTRRR5S-S

**Packaging: Can be gamma irradiated at 25-45 kGy in sterile package

Y-Fitting
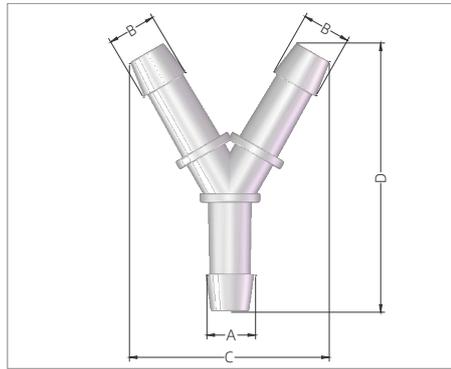
Equal Barbed Y-Fitting

Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions (mm)			
				AΦ	BΦ	C	D
SFYAAA5N (-S)	1/16"HB × 1/16"HB × 1/16"HB	Non-sterile	50	2.3	2.3	9.5	12.5
SFYQQQ5N (-S)	3/32"HB × 3/32"HB × 3/32"HB	Non-sterile	50	3.5	3.5	15.1	21.9
SFYLLL5N (-S)	1/8"HB × 1/8"HB × 1/8"HB	Non-sterile	50	4.2	4.2	17.4	23.7
SFYEEE5N (-S)	3/16"HB × 3/16"HB × 3/16"HB	Non-sterile	50	6.4	6.4	30.2	43.7
SFYRRR5N (-S)	1/4"HB × 1/4"HB × 1/4"HB	Non-sterile	50	7.6	7.6	32.3	43.2
SFYYYY5N (-S)	3/8"HB × 3/8"HB × 3/8"HB	Non-sterile	50	11.0	11.0	43.7	56.6
SFYHHH5N (-S)	1/2"HB × 1/2"HB × 1/2"HB	Non-sterile	50	16.0	16.0	65.8	89.0
SFYMMM5N (-S)	3/4"HB × 3/4"HB × 3/4"HB	Non-sterile	50	21.8	21.8	73.1	88.1
SFYDDD5N (-S)	1"HB × 1"HB × 1"HB	Non-sterile	50	28.0	28.0	89.8	106.0

Reducer Y-Fitting

Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions (mm)			
				AΦ	BΦ	C	D
SFYLLR5N (-S)	1/8"HB × 1/8"HB × 1/4"HB	Non-sterile	50	8.9	5.0	21.6	42.1
SFYRRY5N (-S)	1/4"HB × 1/4"HB × 3/8"HB	Non-sterile	50	12.4	8.9	40.6	66.0
SFYYYH5N (-S)	3/8"HB × 3/8"HB × 1/2"HB	Non-sterile	50	14.6	11.0	45.2	62.0

*Part No. This product is available in polypropylene (PP) and polysulfone (PSF), and is available in sterile and
non-sterile packaging. The reference for naming different types of product numbers is as follows:
1. PP material/Non-sterile: SFYAAA5N
2. PP material/Sterile: SFYAAA5S
3. PSF material/Non-sterile: SFYAAA5N-S
4. PSF material/Sterile: SFYAAA5S-S
**Packaging: Can be gamma irradiated at 25-45 kGy in sterile package

Cross Fitting
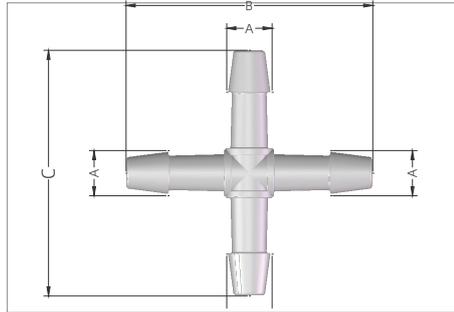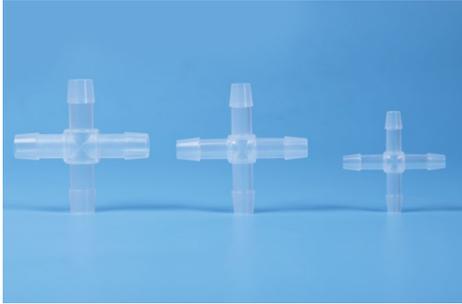
Cross Fitting

Part No.*	Description	Packgaing**	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	B	C
SFXLLLL5N(-S)	1/8"HB × 4	Non-sterile	50	5.0	32.8	32.8
SFXRRRR5N(-S)	1/4"HB × 4	Non-sterile	50	8.9	52.2	52.2
SFXYYYY5N(-S)	3/8"HB × 4	Non-sterile	50	12.4	67.4	67.4
SFXHHHH5N(-S)	1/2"HB × 4	Non-sterile	50	16.0	104.0	104.0

*Part No. This product is available in polypropylene (PP) and polysulfone (PSF), and is available in sterile and non-sterile packaging.

The reference for naming different types of product numbers is as follows:

1. PP material/Non-sterile: SFXLLLL5N

2. PP material/Sterile: SFXLLLL5S

3. PSF material/Non-sterile: SFXLLLL5N-S

4. PSF material/Sterile: SFXLLLL5S-S

**Packaging: Can be gamma irradiated at 25-45 kGy in sterile package.

Tubing Plug

Tubing Plug

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	BΦ	C
SFPL5N	1/8"HB	Non-sterile	50	5.0	6.5	13.0
SFPR5N	1/4"HB	Non-sterile	50	8.9	11.1	23.4
SFPY5N	3/8"HB	Non-sterile	50	12.4	15.8	31.0
SFPH5N	1/2"HB	Non-sterile	50	16.0	19.0	38.0
SFPM5N	3/4"HB	Non-sterile	50	23.7	26.0	55.0

* Packaging: This product can be packaged in sterile or non-sterile modes. The sterilization mode of sterile mode is gamma irradiation,

and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods Refer to the following:

1. Non-sterile: SFPL5N

2. Sterile: SFPL5S

Check Valve

Cobetter Lifemeta SF single-use check valve is mainly used to control the direction of fluid flow. The diaphragm sealing design effectively prevents fluid backflow, reducing the risk of material contamination. In the non-working state, the diaphragm of the check valve is in the closed state. Its two ports use a hose barb design, which is convenient to connect tubing and realize liquid transfer.
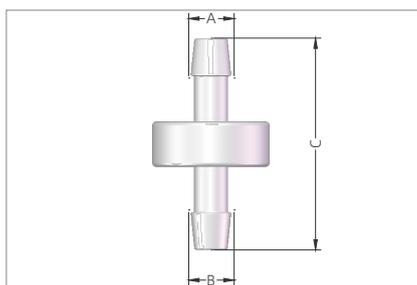
Check Valve

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	BΦ	C
CVCMR1N	1/4"HB × 1/4"HB	Non-sterile	10	7.6	7.6	40.0
CVCMY1N	3/8"HB × 3/8"HB	Non-sterile	10	11.0	11.0	51.6

* Packaging: This product can be packaged in sterile or non-sterile modes. The sterilization mode of sterile mode is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods Refer to the following:
1. Non-sterile:CVCMR1N
2. Sterile: CVCMR1S

Instrument Tee

Cobetter Lifemeta™ SFG single-use instrument tee can be used in conjunction with existing stainless steel instruments and, when connected to pressure monitoring equipment, can provide good measurement accuracy, helping to reduce the common signal drift in complex monitoring configurations. The tee design provides an integrated and unobstructed fluid path and has good sealing during testing. Additionally, during the sterilization process, there is no need to install pressure measuring instruments, reducing the risk of contamination.
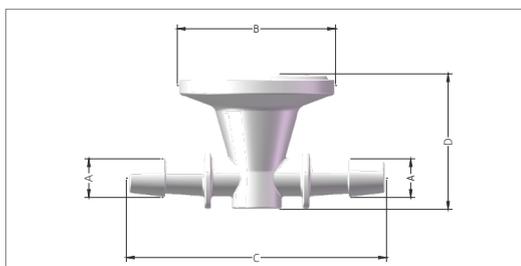
Instrument Tee

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）			
				AΦ	B	C	D
SFGSYYNN	3/8"HB × 3/8"HB × 1-1/2"TC	Non-sterile	1	12.4	50.5	83.0	43.4
SFGSHHNN	1/2"HB × 1/2"HB × 1-1/2"TC	Non-sterile	1	16.0	50.5	94.2	43.4

* Packaging: This product can be packaged in sterile or non-sterile modes. The sterilization mode of sterile mode is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods Refer to the following:
1. Non-sterile: SFGSYYNN
2. Sterile: SFGSYYNS

Lifemeta™ AC Single-use Aseptic Connector

Lifemeta AC single-use aseptic connector, exclusively designed by Cobetter, can be widely used in various production stages of biopharmaceuticals, such as upstream media fed-batch, downstream sterile connection of final filling, etc..

Lifemeta AC aseptic connectors are designed with pull tabs to improve ease of operation, while the genderless structure makes the connection more flexible and reduces the risk of upstream and downstream connection mismatches and operational errors.

Specifications

Size	1/4"HB、3/8"HB、1/2"HB、3/4"HB
Material	Main Components: PSF Membrane: PES O-ring: Silicone rubber Protective Caps: PP
Temperature Range	-80 ~ 130 °C
Pressure Range	0 ~ 3.0 bar
Vacuum Resistance	Up to 1.0 bar
Sterilization	Can be sterilized by gamma irradiation at 25-45kGy or autoclaved for 60 minutes at 130 °C
pH Range	2~12
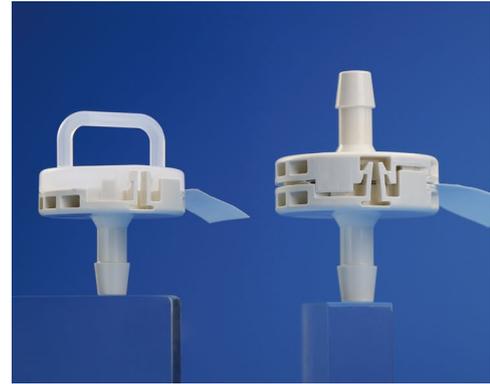
Ordering Information

Part No.	Specification	Packaging*	Qty	Dimensions (mm)		
				A	B	C
ACMSSR	1/4"HB	Non-sterile	5 pcs/pk	50.0	7.6	25.0
ACMSSY	3/8"HB	Non-sterile	5 pcs/pk	50.0	12.4	35.0
ACMSSH	1/2"HB	Non-sterile	5 pcs/pk	50.0	15.4	34.0
ACMSSM	3/4"HB	Non-sterile	5 pcs/pk	50.0	21.8	40.2

＊Note: The product comes default with non-sterile packaging in individual double-layer bags.

Lifemeta™ EC Easy Connector

Cobetter Lifemeta EC easy connector is mainly used for fluid transmission and has a variety of connector options. It can realize the function of quick connection and disconnection of tubings. When the male and female easy connectors are coupled, they can be rotated to avoid the problem of tubing distortion. Its swivel design reduces the risk of accidental disconnection.

Quality Assurance

- ISO 9001:2015 Quality management system
- ADCF raw materials
- Meet the requirement of USP <87> in Vitro Biological Reactivity Test
- Meet the requirement of USP < 88> Biological Reactivity Test, in Vivo for Class VI plastics
- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate(LAL), USP <85>
- Particulate matter in the product eluent meets the requirement in USP <788> for large volume parenterals
- Can be sterilized by gamma irradiation at 25-45 kGy or autoclaved 30 minutes at 126℃ 25 cycles

ECS Easy Connector

Specification	Description
Size	1/8"HB, 1/4"HB, 3/8"HB, 3/4"TC, 1-1/2"TC
Material	Main Body: Polysulfone (PSF); O-ring: Silicone; Thumb Latch: PVDF
Temperature Range	-80~132 ℃
Vacuum Resistance	>0.09 MPa
Pressure Range	0~0.41 MPa
Retention Volume	1/8"HB ~0.2 mL; 1/4"HB ~0.2 mL; 3/8"HB ~0.1 mL
Burst Strength	1/8"HB 5.78~6.36 MPa; 1/4"HB 4.49~4.95 MPa; 3/8"HB 3.09~4.26 MPa
Sterilization	Can be sterilized by gamma irradiation at 25-45 kGy or autoclaved 60 minutes at 132 ℃, 25 cycles
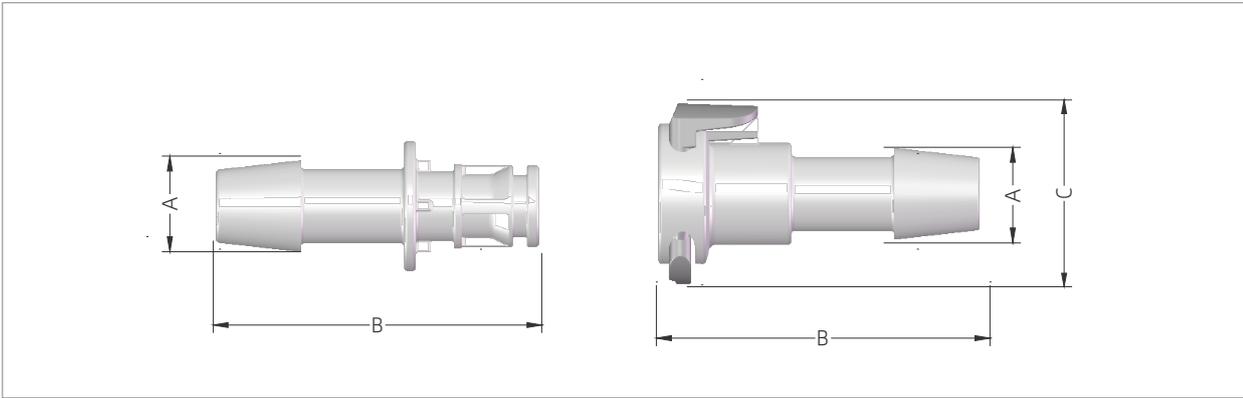
ECS Easy Connector (Female Coupling Bodies, Hose Barb)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	B	CΦ
ECSSFL1N	1/8"HB	Non-sterile	10	5.0	31.0	24.4
ECSSFR1N	1/4"HB	Non-sterile	10	8.9	38.8	24.5
ECSSFY1N	3/8"HB	Non-sterile	10	12.4	43.5	24.4

ECS Easy Connector (Male Coupling Inserts, Hose Barb)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）	
				AΦ	B
ECSSML1N	1/8"HB	Non-sterile	10	5.0	31.3
ECSSMR1N	1/4"HB	Non-sterile	10	8.9	39.1
ECSSMY1N	3/8"HB	Non-sterile	10	12.4	43.8
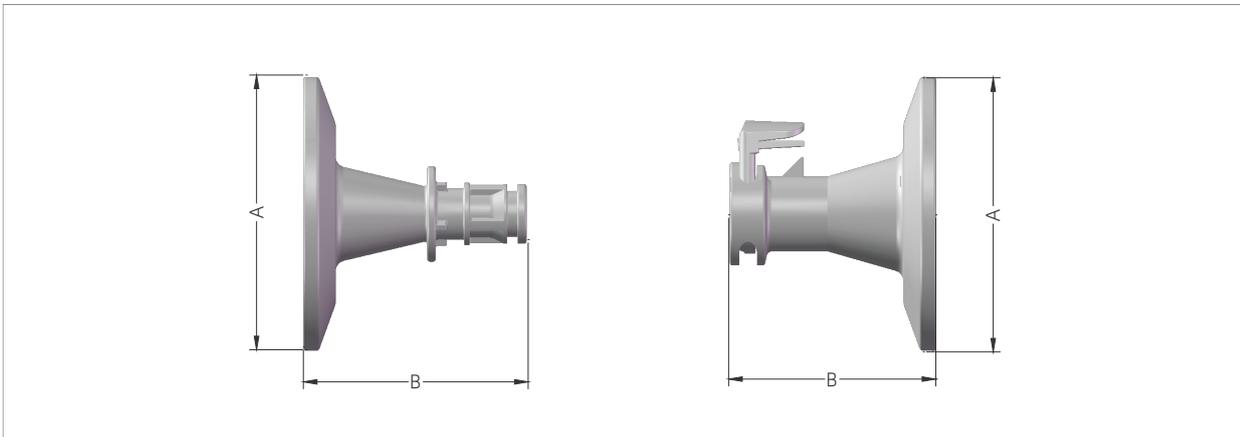
ECS Easy Connector (TC)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）	
				AΦ	B
ECSSFS1N	ECS 1-1/2"TC Female Connector	Non-sterile	10	50.5	38.0
ECSSMS1N	ECS 1-1/2"TC Male Connector	Non-sterile	10	50.5	41.1
ECSSFT1N	ECS 3/4" TC Female Connector	Non-sterile	10	25.0	35.8
ECSSMT1N	ECS 3/4" TC Male Connector	Non-sterile	10	25.0	36.1
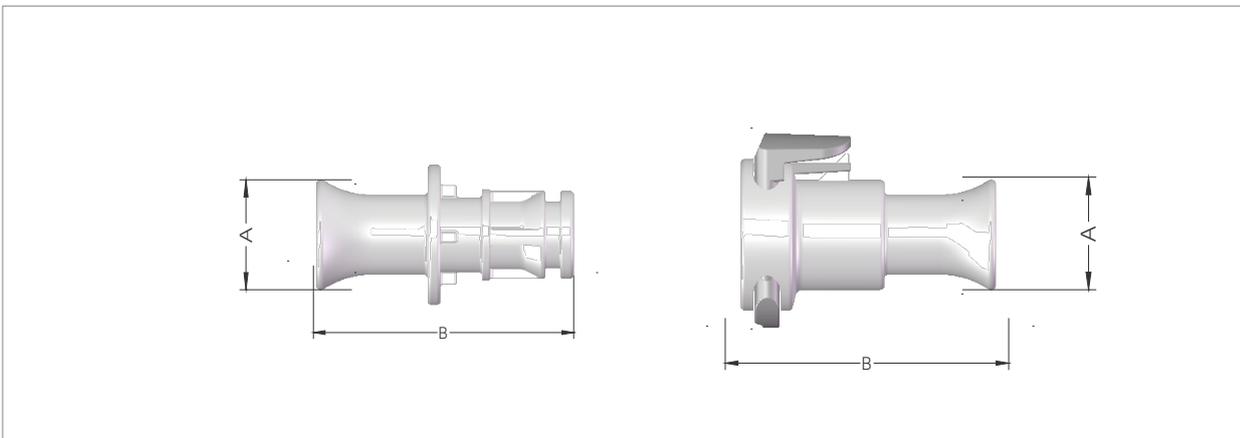
ECS Easy Connector (Plug)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）	
				AΦ	B
ECSSFP1N	Female Sealing Cap	Non-sterile	10	13.8	32.0
ECSSMP1N	Male Sealing Plug	Non-sterile	10	13.8	32.3

ECM Easy Connector
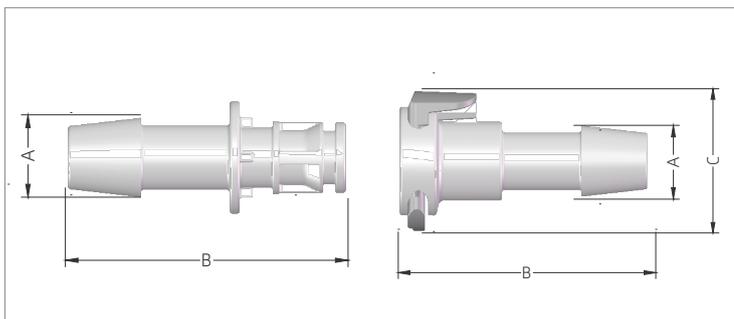
Specification	Description
Size	1/2"HB
Material	Main Body: Polysulfone (PSF); O-ring: Silicone; Thumb Latch: PVDF
Temperature Range	-80~132℃
Vacuum Resistance	>0.09 MPa
Pressure Range	0~0.41 MPa
Retention Volume	0.2 mL
Burst Strength	1.56~2.88 MPa
Sterilization	Can be sterilized by gamma irradiation at 25-45 kGy orautoclaved 60 minutes at 132℃, 25 cycles

ECM Easy Connector (Female Coupling Bodies, Hose Barb)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	B	CΦ
ECMSFH1N	1/2"HB	Non-sterile	10	16.0	55.6	34.4

ECM Easy Connector (Male Coupling Inserts, Hose Barb)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）	
				AΦ	B
ECMSMH1N	1/2"HB	Non-sterile	10	16.0	55.6

ECM Easy Connector (Plug)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）	
				AΦ	B
ECMSFP1N	Female Sealing Cap	Non-sterile	10	20.8	45.5
ECMSMP1N	Male Sealing Plug	Non-sterile	10	20.8	45.5

ECL Easy Connector
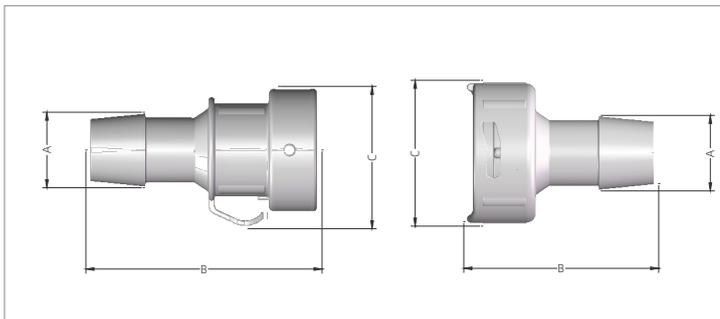
Specification	Description
Size	3/4"HB
Material	Main Body: Polysulfone(PSF); O-ring: Silicone
Temperature Range	-80~132 ℃
Vacuum Resistance	>0.09 MPa
Retention Volume	0.2 mL
Sterilization	Can be sterilized by gamma irradiation at 25-45 kGy or autoclaved 60 minutes at 132℃, 25 cycles

ECL Easy Connector (Female Coupling Bodies, Hose Barb)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	B	CΦ
ECLSFM1N	3/4"HB	Non-sterile	10	23.5	60.4	45.4

ECL Easy Connector (Male Coupling Inserts, Hose Barb)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	B	CΦ
ECLSMM1N	3/4"HB	Non-sterile	10	23.5	73.2	44.3

ECL Easy Connector (Plug)

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	B	CΦ
ECLSFP1N	Female Sealing Cap	Non-sterile	10	45.4	20.2	45.4
ECLSMP1N	Male Sealing Plug	Non-sterile	10	39.6	35.0	31.8

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation,
and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:
1. Non-sterile: ECSSFL1N
2. Sterile:ECSSFL1S

Pinch Clamp

Cobetter Lifemeta™ HA single-use pinch clamp provides various sizes of clamps that can intercept liquid in the tubing, such as silicone tubing, TPE tubing, and reinforced braided silicone tubing. The clamps with excellent mechanical strength and good chemical compatibility, ensure long-term use. Produced by Cobetter, it is reliable in quality, meets multiple regulatory requirements, can customize special sizes according to customer needs, and has a short delivery cycle.

Quality Assurance

• ISO 9001:2015 Quality management system

• ADCF raw materials, manufacturing in the ISO Class 7 clean zones

• Resin raw material meets the requirement of USP <87> in Vitro Biological Reactivity Test

• Resin raw material meets the requirement of USP <88> Biological Reactivity Test, in Vivo for Class VI plastics

• Can be sterilized by gamma irradiation at 25-45 kGy or autoclaved

Pinch Valve
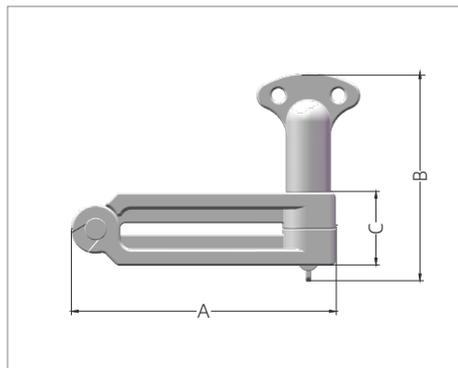
HAVXS

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				A	B	C
HAVXSVN	For Wall Thickness 1/8"(3.2 mm) - 1/4"(6.4 mm) Tubing	Non-sterile	5	97.0	76.8	27.0
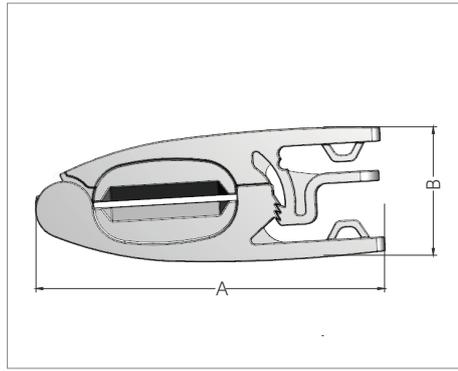
HAVLG

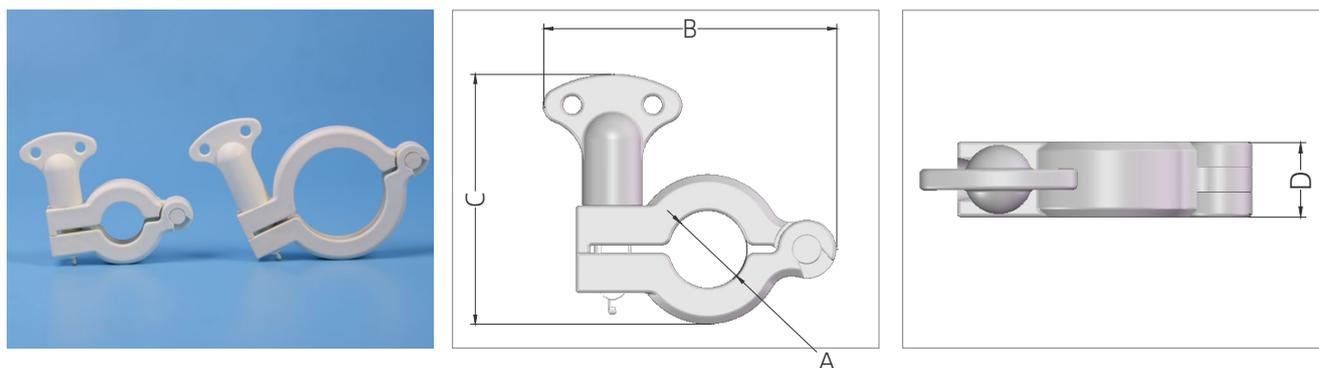| Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）	
				A	B
HAVLGVN	For Wall Thickness 1.5 mm - 1/8"(3.2 mm) Tubing	Non-sterile	5	96.0	35.0

Slide Clamp
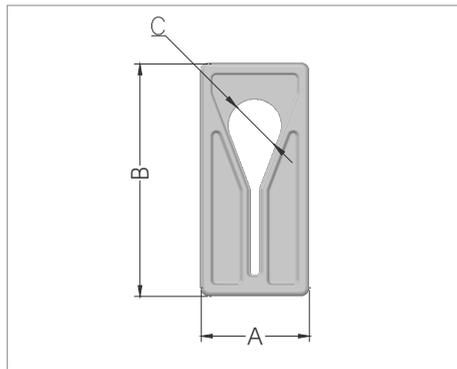
Slide Clamp

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				A	B	C
HACRY5N	For OD 6.0 mm - OD3/8"(9.6 mm) Tubing	Non-sterile	50	25.0	54.0	12.1

Pinch Clamp
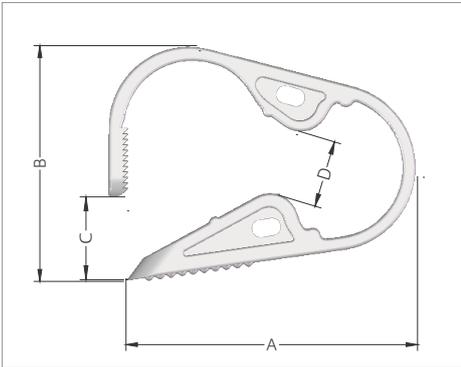
Pinch Clamp

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）			
				A	B	C	D
HACRH5N-B	For OD 1/4"(6.4 mm) - OD 1/2"(12.7 mm) Tubing	Non-sterile	50	41.3	29.3	3.7	4.8
HACHM5N	For OD 1/2"(12.7 mm) - OD 3/4"(19.1 mm) Tubing	Non-sterile	50	57.7	43.8	15.6	12.3
HACHD5N	For OD 1/2"(12.7 mm) - OD 1"(25.4 mm) Tubing	Non-sterile	50	64.5	48.8	14.8	13.5

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation,

and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:

1. Non-sterile: HAVXSVN

2. Sterile:HAVXSVS

Tri-Clamp Sets

Cobetter Lifemeta™ tri-clamp sets includes TC clamps, silicone gaskets, and blind caps, catering to the frequent disconnection or connection needs in the biopharmaceutical process. It is mainly used for bag powder port sealing, flange connections, as well as tubing and filter product connections. This series of clamps is made of reinforced nylon material, which exhibits minimal distortion compared to other high polymer materials, making it lightweight, flexible, and easy to operate.

Quality Assurance

- ISO 9001:2015 Quality management system
- ADCF raw materials
- Aqueous extraction contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate(LAL), USP <85>
- Particulate matter in the product eluent meets the requirement in USP <788> for large volume parenterals
- TC Clamp can be sterilized by gamma irradiation at 25-45 kGy or autoclaved 30 minutes at 126℃

TC Clamp

TC Clamp

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）			
				AΦ	B	C	D
TCCNT1N	3/4"TC	Non-sterile	10	21.0	80.0	68.5	18.0
TCCNS1N	1-1/2"TC	Non-sterile	10	45.0	106.0	88.5	18.0
TCCN21N-B	2"TC	Non-sterile	10	55.6	123.8	87.8	18.0
TCCN31N-B	3"TC	Non-sterile	10	86.0	153.5	104.5	18.5
TCCN41N-B	4"TC	Non-sterile	10	113.0	180.0	132.5	26.9
TCCN81N-B	8"TC	Non-sterile	10	210.0	309.0	239.8	23.5

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:

1. Non-sterile: TCCNT1N
2. Sterile:TCCNT1S

Silicone Gasket
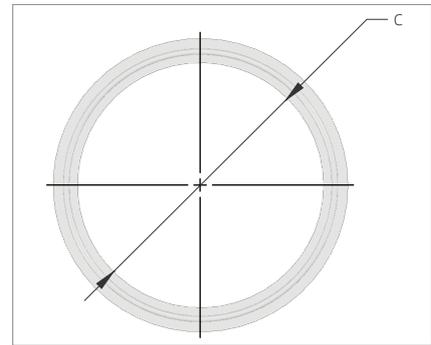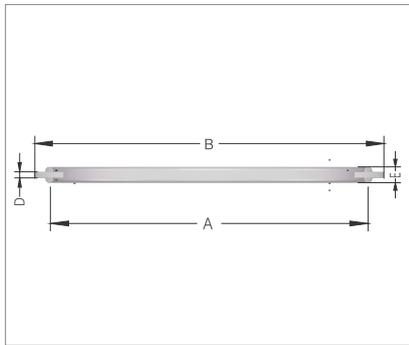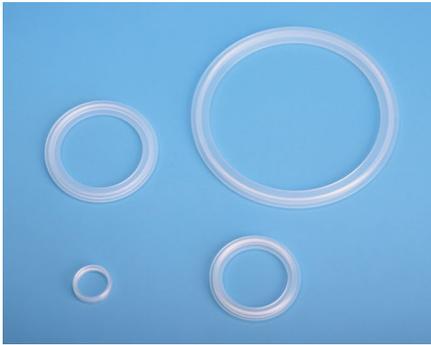
Silicone Gasket

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）				
				AΦ	BΦ	CΦ	D	E
TCGST1N-E	3/4"TC	Non-sterile	10	19.9	21.5	16.3	2.0	4.6
TCGSS1N-E	1-1/2"TC	Non-sterile	10	43.6	49.8	35.8	1.7	5.2
TCGS21N-B	2"TC	Non-sterile	10	57.0	63.5	47.5	1.7	4.4
TCGS31N-B	3"TC	Non-sterile	10	81.5	88.7	72.6	2.0	5.2
TCGS41N-E	4"TC	Non-sterile	10	108.8	118.5	99.0	2.0	6.0
TCGS81N-B	8"TC	Non-sterile	10	206.0	217.4	199.4	1.8	5.0

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:

1. Non-sterile: TCGST1N-E
2. Sterile:TCGST1S-E

Blind Cap
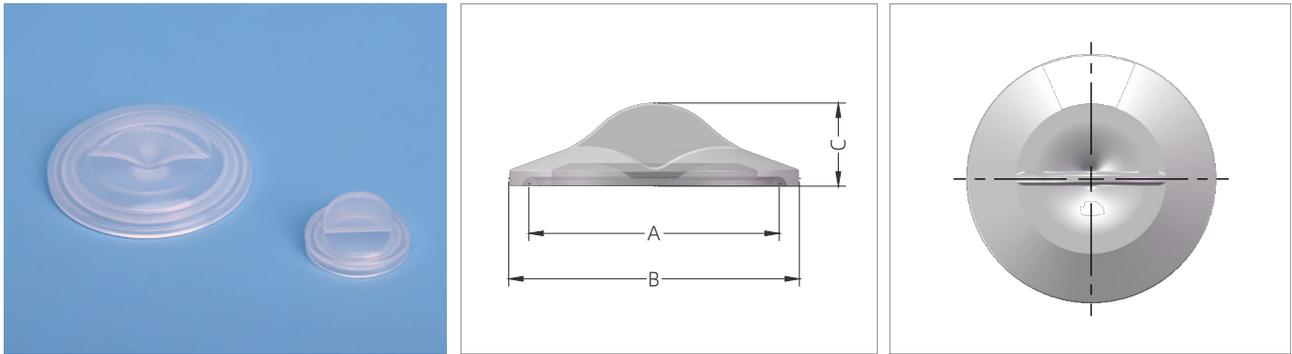
Blind Cap

Part No.	Description	Packgaing*	Qty (pcs/pk)	Dimensions（mm）		
				AΦ	B	C
TCEPT1N	3/4"TC	Non-sterile	10	20.3	25.0	15.5
TCEPS1N	1-1/2"TC	Non-sterile	10	43.5	50.5	14.5
TCEP21N-B	2"TC	Non-sterile	10	56.0	63.9	15.0
TCEP31N	3"TC	Non-sterile	10	83.5	91.0	16.6
TCEP41N	4"TC	Non-sterile	10	110.0	119.0	20.3
TCEP81N-B	8"TC	Non-sterile	10	206.0	217.4	25.5

* Packaging: This product is available in sterile or non-sterile packaging. The sterilization method for sterile products is gamma irradiation, and the irradiation dose is 25~45 kGy. Naming of products with different packaging methods refer to the following:
1. Non-sterile: TCEPT1N
2. Sterile:TCEPT1S

Sterile Sampling

Lifecube™ SSB PETG Singe-Use Bottles

Cobetter Lifecube™ SSB PETG single-use bottles meet the needs of liquid storage, transfer, sampling, package, and freezing in most bioprocess. The bottles are equipped with a high-strength threaded design to avoid the risk of leakage during transfer and storage.

Specifications

Product	PETG Singe-use Bottles
Material	Bottle material：PETG
	Sealing cap：HDPE
	Cap with 2 ports：PP
Volume	125 mL, 250 mL, 500 mL, 1 L
Cap Diameter	38 mm
Cap with 2 ports Specification	Outer ports: 1/4"-1/8"HB; Inner port: 1/8"
Bottle Dimensions Length × Width × Height (mm)	125 mL：52.0 × 52.0 × 104.0
	250 mL：58.0 × 58.0 × 141.0
	500 mL：73.0 × 73.0 × 171.5
	1 L：93.0 × 93.0 × 213.5
Temperature Range	-40 to 60 ℃
Sterilization	Can be gamma irradiated at 25-45 kGy in sterile package
Features	High transparency
	High mechanical strength
	UV resistance
	Good gas barrier properties
Applications	Culture media, buffer storage and transfer
	Serum storage and transfer
	Sterile transfer
	Sterile sampling
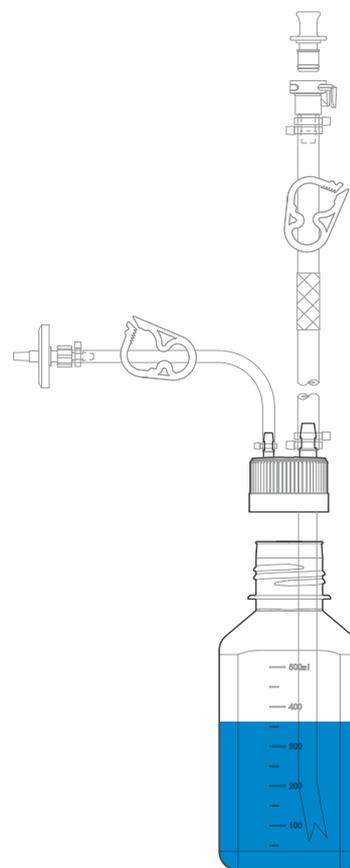
Product Configuration

Bottle Volume	125 mL to 1 L
Tubing	Lifemeta™ STT Pt-cured Silicone Tubing
	Lifemeta™ STF TPE Tubing
	Pharma-50 Pt-cured Silicone Tubing
	C-Flex® 374 TPE Tubing
Cap Model	Sealing Cap, Cap with 2 Ports
Connector	Lifemeta™ EC Easy Connector
	TC25/TC50
	Tubing Plug
	CPC AseptiQuik® Sterile Connector
Vent Filter	Bricap™ SFU33
Sampling	Needlefree Swabable Valve
	Sampling Plug

Single-Use Bottles + Sealing Cap

Sterile Part No.*	Non-Sterile Part No.	Volume	Material	Qty/pk (pcs)
SSBG1251N	SSBG1251NN01	125 mL		
SSBG2501N	SSBG2501NN01	250 mL	Bottle：PETG	
SSBG5001N	SSBG5001NN01	500 mL	Cap：HDPE	10
SSBG01L1N	SSBG01L1NN01	1 L		

* The sterile version defaults to gamma irradiation for sterilization.
** The default packaging method is the individual double-layer package.

Single-Use Bottles+Cap with 2 Ports

Sterile Part No.	Non-sterile Part No.	Volume	Material	Cap Configuration	Qty/pk (pcs)
SSBG12512B01	SSBG12512B02	125 mL			
SSBG25012B01	SSBG25012B02	250 mL		No tubing	10
SSBG50012B01	SSBG50012B02	500 mL			
SSBG01L12B01	SSBG01L12B02	1 L			
SSBG12512A01	SSBG12512A02	125 mL	Bottle：PETG	Outer Tubing 1: 20 cm ID1/4"*OD7/16" Lifemeta™ STT Pt-cured Silicone Tubing* + Metallic Sleeve + ECS Female Connector**	
SSBG25012A01	SSBG25012A02	250 mL	Cap：PP	Outer Tubing 2: 10 cm ID1/8"*OD1/4" Lifemeta™ STT Pt-cured Silicone Tubing + Vent Filter	10
SSBG50012A01	SSBG50012A02	500 mL			
SSBG01L12A01	SSBG01L12A02	1 L		Inner Tubing: ID1/8"*OD1/4" Lifemeta™ STT Pt-cured Silicone Tubing	
SSBG12512A03	SSBG12512A04	125 mL		Outer Tubing 1: 40 cm ID1/4"*OD7/16" Lifemeta™ STF TPE Tubing*** + Tubing Plug**	
SSBG25012A03	SSBG25012A04	250 mL		Outer Tubing 2: 10 cm ID1/8"*OD1/4" Lifemeta™ STT Pt-cured Silicone Tubing+ Vent Filter	10
SSBG50012A03	SSBG50012A04	500 mL			
SSBG01L12A03	SSBG01L12A04	1 L		Inner Tubing: ID1/8"*OD1/4" Lifemeta™ STT Pt-cured Silicone Tubing	

* Other brands or lengths of silicone tubing can be selected.
** You can choose sterile connectors, easy connectors, tubing plugs, female luer locks, or other connectors.
*** Other brands or lengths of TPE tubing can be selected.

Lifemeta™ SA Sterile Sampling System

Lifemeta™ sterile sampling system is flexible technology for fluids aseptic transfer 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
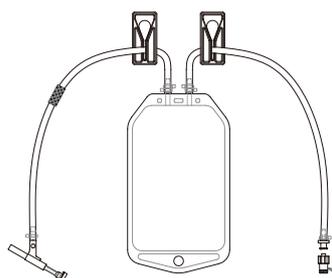
Sampling Bag
Available in 50,100,250 and 500 mL sires

Ordering Information

Single Sampling Bag		
Volume	**Cat No.**	**Sampling Lines**
2D 50 mL	KAS0051T4VA1	Line 1: 20 cm ID⅛" * OD¼" Lifemeta™ STT Pt-cured Silicone Tubing *
2D 100 mL	KAS0101T4VA1	+ Metallic Sleeve + NF Sampling Needle, 1 mm
2D 250 mL	KAS0251T4VA1	Line 2: 20 cm ID⅛" * OD¼" Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug **
2D 500 mL	KAS0501T4VA1	
2D 50 mL	KAS0051T4VA2	Line 1: 20 cm ID1/8"* OD1/4" LifemetaTM STT Pt-cured Silicone Tubing
2D 100 mL	KAS0101T4VA2	+ Metallic Sleeve + NF Sampling Needle, 2 mm
2D 250 mL	KAS0251T4VA2	Line 2: 20 cm ID1/8"* OD1/4" LifemetaTM STT Pt-cured Silicone Tubing + Sampling Plug*
2D 500 mL	KAS0501T4VA2	
2D 50 mL	KAS0051T4V	Line 1: 20 cm ID1/8"* OD1/4" LifemetaTM STT Pt-cured Silicone Tubing
2D 100 mL	KAS0101T4V	+ Metallic Sleeve + NS Sampling Needle, 2 mm
2D 250 mL	KAS0251T4V	Line 2: 20 cm ID1/8"* OD1/4" LifemetaTM STT Pt-cured Silicone Tubing + Sampling Plug*
2D 500 mL	KAS0501T4V	
2D 50 mL	KAS0051T4VA4	Line 1: 20 cm ID 3.0 mm * OD 6.0 mm Lifemeta™ STT Pt-cured Silicone Tubing
2D 100 mL	KAS0101T4VA4	+ Metallic Sleeve + NF Sampling Needle, 1 mm
2D 250 mL	KAS0251T4VA4	Line 2: 20 cm ID 3.0 mm * OD 6.0 mm Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug
2D 500 mL	KAS0501T4VA4	
2D 50 mL	KAS0051T4VA5	Line 1: 20 cm ID 3.0 mm * OD 6.0 mm Lifemeta™ STT Pt-cured Silicone Tubing
2D 100 mL	KAS0101T4VA5	+ Metallic Sleeve + NF Sampling Needle, 2 mm
2D 250 mL	KAS0251T4VA5	Line 2: 20 cm ID 3.0 mm * OD 6.0 mm Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug
2D 500 mL	KAS0501T4VA5	
2D 50 mL	KAS0051T4VA3	Line 1: 20 cm ID 3.0 mm * OD 6.0 mm Lifemeta™ STT Pt-cured Silicone Tubing
2D 100 mL	KAS0101T4VA3	+ Metallic Sleeve + NS Sampling Needle, 2 mm
2D 250 mL	KAS0251T4VA3	Line 2: 20 cm ID 3.0 mm * OD 6.0 mm Lifemeta™ STT Pt-cured Silicone Tubing + Sampling Plug
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 Bag
2D 100 mL	KAS0105T4V	
2D 250 mL	KAS0255T4V	
2D 500 mL	KAS0505T4V	
2D 50 mL	KAS0055T4VA3	NS Sampling Needle, 2 mm + ID 3.0 mm * OD 6.0 mm Lifemeta™ STT Pt-cured Silicone Tubing + 5 * Sampling Bags + 1*500 mL Waste Bag
2D 100 mL	KAS0105T4VA3	
2D 250 mL	KAS0255T4VA3	
2D 500 mL	KAS0505T4VA3	
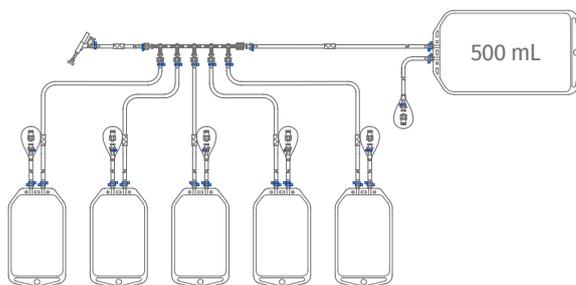
Sampling Assemblies	
Volume	Configuration
SAL1TL054VS	NS Sampling Needle, 2 mm + 50 cm ID1/8"* OD1/4" Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + Sampling Plug
SAL1CL104VS	NS Sampling Needle, 2 mm + 100 cm ID1/8"* OD1/4" C-Flex 374 TPE Tubing+ Metallic Sleeve + Sampling Plug
SAL1TL054VSA3	NS Sampling Needle, 2 mm + 50 cm ID 3.0 mm * OD 6.0 mm Lifemeta™ STT Pt-cured Silicone Tubing + Metallic Sleeve + Sampling Plug
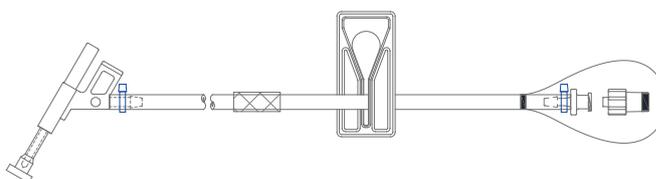
Lifemeta™ Sampling Holder

Lifemeta™ sampling holder is designed to be used with Lifemeta™ sampling units. There are two types of sampling holders that can be matched 1 or 2 mm sampling needles. The sampling holders and needles are pre-assembled and then docked with the stainless steel container for sterile sampling, and reducing the risk of contamination.

Materials of Construction

TC Holder Material	Stainless steel 316 L
Magazine Material	Aluminium alloy 6061
Locking Nut and Tool Materials	Stainless steel 316 L
Surface Finish	Wetted parts electropolished Ra ≤0.5 µm
Operating Temperature	-80°C to 150°C (-112° to 302°F)
Maximum Operating Pressure	0-6 bar (0-87 psi)

Ordering Information

Cat No.	Description	Qty/pk
NFM5D	NF Sampling Holder, compatible with 1 mm and 2 mm NF sampling needles and port plug , 5 sampling ports, adapter type 1.5" TC (OD 50.5 mm)	1
NSM5D	NS Sampling Holder, compatible with 2 mm NS sampling needles and port plug , 5 sampling ports, adapter type 1.5" TC (OD 50.5 mm)	1
C5NP	Port Plug	10

Lifemeta™ Manual Crimping Tool

Lifemeta™ manual crimping tools can realize aseptic disconnection of silicone or TPE tubing, quick disconnection of the tubing with the metallic sleeve into the edge die to prevent external microorganisms from entering the fluid path during disconnection. Lifemeta™ manual crimping tools provide aseptic disconnection in classified or non-classified environments. It protects the liquid inside the tubing from external conditions and seals the tubing without risk of leakage.

Specifications

Body Material	Aluminium alloy
Die Material	Steel with hardened special surface treatment
Bearing Material	304 Stainless Steel
Diameter of Tubing	ID⅛" * OD¼"
Weight	730 g

Ordering Information

Cat No.	Description	Qty/pk
DCMMCT	Manual Crimping Tool	1 pcs
DCM064M-E	Metallic Sleeve	100 pcs
STTL150N	Pt-cured Silicone Tubing, ID⅛" * OD¼"	15 m

Metallic Sleeve

Cobetter Lifemeta DCM metallic sleeve can achieve the sterile disconnection of silicone tubing or TPE tubing. They are mainly used in conjunction with manual or electric sterile crimping tools. By placing the metallic sleeve into the blade of the crimping tool and applying a certain force, the fluid tubing can be quickly disconnected, preventing external microorganisms from entering the fluid channel during disconnection. They are primarily used in sterile sampling systems.

Product Features

• Compatible with OD1/4" - OD3/4" tubing
• Made of nickel-plated brass, with high strength and hardness
• Pressure resistance after tubing disconnection: 0-0.2 MPa
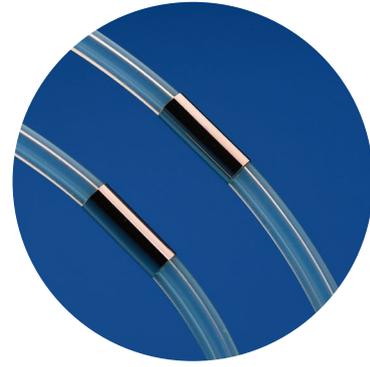
Ordering Information

Cat No.	Description	Qty/pk
DCM064M-E	For ID1/8"*OD1/4" Tubing	100
DCM112M-E	For ID1/4"*OD7/16" Tubing	100
DCM159M-E	For ID3/8"*OD5/8" Tubing	100
DCM191M-E	For ID1/2"*OD3/4" Tubing	100
DCM060M-E	For ID3.0*OD6.0mm Tubing	100
DCM128M-E	For ID1/4"*OD1/2" Tubing	100

Pressure Reading System

Lifemeta™ Pressure Monitor

Cobetter Lifemteta™ pressure monitor can display the data measured by the pressure sensor and include USB data port protocol can realize real-time data output.The monitor is small and easy to carry, and can be used for testing in factories or laboratories.
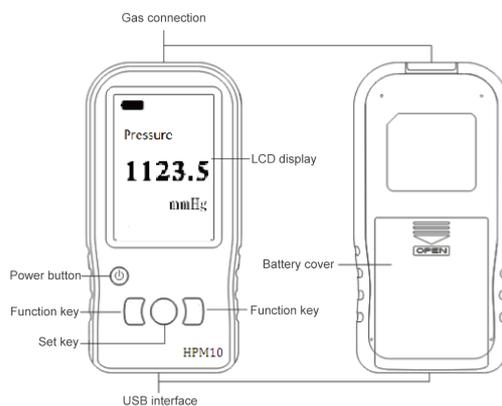
Major Function

• USB data communication function and USB power supply
• Pressure measurement unit display
• Zero check
• Li-ion polymer battery power

Parameter	Specifications
Working temperature	0~40 °C
Relative humidity	15%～95%，non-condensing
Atmospheric pressure	70.0kPa ～106.0 kPa
Power supply	4.5VDC，USB 5.0VDC
Pressure measurement range	0~60 PSI (0~4 Bar)

Ordering information

Part No.	configuration*
Y0002	Single channel pressure sensor interface

*Please consult sales or technical personnel for details.

Lifemeta™ SPC Single-use Pressure Sensor

Cobetter Lifemeta SPC single-use pressure sensor adopts a smooth flow channel design without dead ends, which can accurately measure the static and dynamic pressure of gases and liquids in the process. The sensors connect to monitors via an integral connector for high-precision reading, compatible with other pre-certified third-party displays.

Hose Barbs Sensors Ordering information

Part No.	Description*	Material	Packgaing*	Qty (pcs/pk)
SPCSRR	1/4"HB × 1/4"HB, without calibration certificate	PSF	Non-sterile	1
SPCSYY	3/8"HB × 3/8"HB, without calibration certificate	PSF	Non-sterile	1
SPCSHH	1/2"HB × 1/2"HB, without calibration certificate	PSF	Non-sterile	1
SPCSRR-C	1/4"HB × 1/4"HB, with calibration certificate	PSF	Non-sterile	1
SPCSYY-C	3/8"HB × 3/8"HB, with calibration certificate	PSF	Non-sterile	1
SPCSHH-C	1/2"HB × 1/2"HB, with calibration certificate	PSF	Non-sterile	1

*According to the user's needs, you can choose calibration or non-calibration.

**Pressure sensors can be used with other third-party pressure monitors. Please consult sales or technicians for details.

Luer Sensors Ordering information

Part No.	Description*	Material	Packgaing*	Qty (pcs/pk)
SPCCCP	Female Luer × Male Luer, without calibration certificate	PC	Non-sterile	1
SPCSCP	Female Luer × Male Luer, without calibration certificate	PSF	Non-sterile	1
SPCCCP-C	Female Luer × Male Luer, with calibration certificate	PC	Non-sterile	1
SPCSCP-C	Female Luer × Male Luer, with calibration certificate	PSF	Non-sterile	1

*According to the user's needs, you can choose calibration or non-calibration.

**Pressure sensors can be used with other third-party pressure monitors. Please consult sales or technicians for details.

Instruments

Biophsep™ TFF System- MiniLab

Biophsep™ TFF System - MiniLab experimental grade ultrafiltration system consists of peristaltic pump, proportional pinch valve, balance, control cabinet, tablet computer and data processing software. Users can freely select and configure according to their needs, and independently develop data processing software set settings. Plan, collect data by yourself and form reports, one-click operation and other functions are integrated into one. High degree of automation, flexible and convenient to use.

Technical Parameters

Size	About 4200 cm^2		13#	0.36-36 mL/min
Weight	17 kg		14#	1.3-130 mL/min
Voltage	100-240 V 50/60 Hz	Tubing flow range	16#	4.8-480 mL/min
Max. output current	0.9 A		25#	10-1000 mL/min
Power	200 W		17#	17-1700 mL/min
Storage temperature	＜50℃			
Hollow fiber filter	Mini / Mini Lab /Lab Recommended Process Volume < 2 L			
Cassette	Recommended Process Volume < 4 L Peristaltic Pump: 0.01-0.34 m^2 Diaphragm Pump: 0.01-0.6 m^2			

Ordering Information

| Product name	Model	Unit
Biophsep™ TFF System	MiniLab	1/pkg
Conical reservoir assembly	500 mL	1/pkg
Conical reservoir assembly	250 mL	1/pkg
Conical reservoir assembly	50 mL	1/pkg
Reservoir kit	1L	1/pkg
Reservoir stand	250 / 500 mL	1/pkg

Convemate Quaternary Diaphragm Pump

Convemate Quaternary Diaphragm Pump is designed for critical applications in the biopharmaceutical industry, available in single-use and multiple-use pump heads according to your applications. The working principle of diaphragm pump ensures gently, safety and reliability transfer of shear-sensitive aqueous solutions and biologic products, reducing shear effect and particle generation. Additionally, Cobetter Quaternary Diaphragm Pump allows for risk-free dry-running, low pulsation, self-priming.

Ordering Information

Model	Description	Package (pcs/box)
FDP-MU0150-SPD	Multiple-Use-150-Speed Control Pump	1PC
FDP-MU0150-SMT	Multiple-Use-150-Speed Control Pump	1PC
FDP-MU1200-SPD	Multiple-Use-1200-Speed Control Pump	1PC
FDP-MU1200-SMT	Multiple-Use-1200-Speed Control Pump	1PC
FDP-SU0150-SPD	Single-Use-150-Speed Control Pump	1PC
FDP-SU0150-SMT	Single-Use Pumps-150-Intelligent Pump	1PC
FDP-SU1200-SPD	Single-Use-1200-Speed Control Pump	1PC
FDP-SU1200-SMT	Single-Use Pumps-1200-Intelligent Pump	1PC
FDP-SU0150-PHD	Single-Use Pump head-150	1PC
FDP-SU1200-PHD	Single-Use Pump head-150, Sterile	1PC
FDP-SU0150-PHS	Single-Use Pump head-1200	1PC
FDP-SU1200-PHS	Single-Use Pump head-1200, Sterile	1PC

		FDP MU0150	FDP SU0150
Max. Flow Rate	Eccentric Shaft 5°	1-180 lph (0.017-3 lpm)	1-180 lph (0.017-3 lpm)
Pressure	Temp. of Fluid < 40° C	6 bar	4 bar
	Temp. of Fluid > 40° C	4 bar	4 bar
Max. Temperature	Fluid	80°C	60°C
	Moist Heat Sterilization 30min	121°C	121°C
Suction Lift Dry @3000 rpm	Eccentric Shaft 5°	2-3 m	2-3 m
Volume at Free Output	Approximated Volume per Revolution (0 bar)	1.25 ml	1.25 ml
Motor	Rated speed	3000 rpm	3000 rpm
	Voltage	200-240 VAC	200-240 VAC
	Power	100 W	100 W
Connections	Inner Diameter	4.7 mm	4.7 mm
	Chuck Diameter	25 mm	25 mm
Materials	Housing	SS316L	PP
	Diaphragm	TPE	TPE
	Check Valve	EPDM	EPDM
	O-ring	EPDM	EPDM
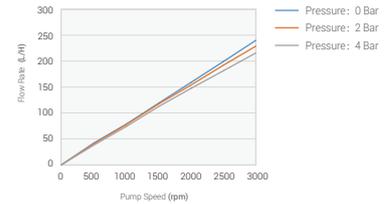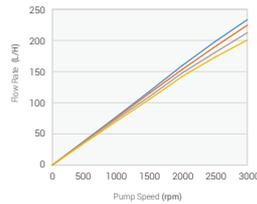
		FDP MU1200	FDP SU1200
Max. Flow Rate	Eccentric Shaft 5°	6-1200 lph (0.1-20lpm)	6-1200 lph (0.1-20lpm)
Pressure	Temp. of Fluid < 40° C	6 bar	4 bar
	Temp. of Fluid > 40° C	4 bar	4 bar
Max. Temperature	Fluid	80 °C	80°C
	Moist Heat Sterilization 30min	121 °C	121°C
Suction Lift Dry @3000 rpm	Eccentric Shaft 5°	4-4.5 m	4-4.5 m
Volume at Free Output	Approximated Volume per Revolution (0 bar)	9.7 ml (5°)	9.7 ml (5°)
Motor	Rated Speed	2500 rpm	2500 rpm
	Voltage	200-240 VAC	200-240 VAC
	Power	750 W	750 W
Connections	Inner Diameter	16 mm	16 mm
	Chuck Diameter	25 mm	25 mm
Materials	Housing	SS316L	PP
	Diaphragm	TPE	TPE
	Check Valve	EPDM	EPDM
	O-ring	EPDM	EPDM
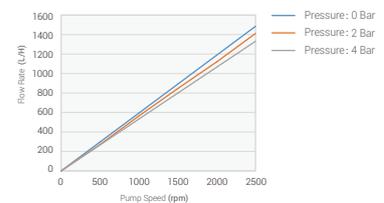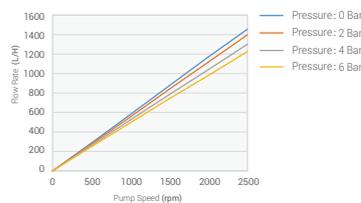
Lifemeta™ Tube Sealer

Application

· Aseptically seal TPE tubes of single-use sampling bags
· Aseptically seal TPE tubes of single-use storage bags

Parameters

Model	LMTSA0
Input Voltage /Power	100-240 VAC 50/60 HZ 200 W
Screen	7.0 inch high-definition color touch screen with a resolution of 1024 * 600
Dimension	Length:305mm; Width:220mm Height:Controller 160 mm + Handheld Module 150 mm
Weight	Controller 3.3 kg; Handheld module 2.5 kg
Applicable Environment	Operating temperature 5℃~40℃ Humidity 35%-80%
Log Capacity	100,000
Interface	USB*1

Ordering Information

Name	Model	Unit/Box
Lifemeta™ Tube Sealer	LMTSA0	1pcs

Lifemeta™ Tube Welder

Application

· Aseptically weld TPE tubes of single-use sampling bags

· Aseptically weld TPE tubes of single-use storage bags

Parameters

Model	**LMTWA0**
Input Voltage/Power	100-240 VAC 50/60 HZ 288 W
Screen	4.3 inch high-definition color touch screen with a resolution of 480*272
Dimension	L×W×H：270×263×263 mm
Weight	11.1Kg
Applicable Environment	Operating Temperature 5℃~40℃ Humidity 20%-80%
Log Storage	SD Card
Interface	RJ45*1

Ordering Information

Name	Model	Unit/Box
Lifemeta™ Tube Welder	LMTWA0	1 pcs
Blade	SH20	50/box
1/8"*1/4"Tube Holder	SH1	2 pcs/group
3/16"*5/16"Tube Holder	SH2	2 pcs/group
1/4"*3/8"Tube Holder	1SH3	2 pcs/group
1/4"*7/16"Tube Holder	SH4	2 pcs/group
3/8"*9/16"Tube Holder	SH5	2 pcs/group
5/16"*1/2"Tube Holder	SH6	2 pcs/group
3/8"*5/8"Tube Holder	SH8	2 pcs/group
1/2"*3/4"Tube Holder	SH9	2 pcs/group

Lifemeta™ Tube Welder-Pro

Application

· Aseptically weld TPE tubes of single-use sampling bags
· Aseptically weld TPE tubes of single-use storage bags
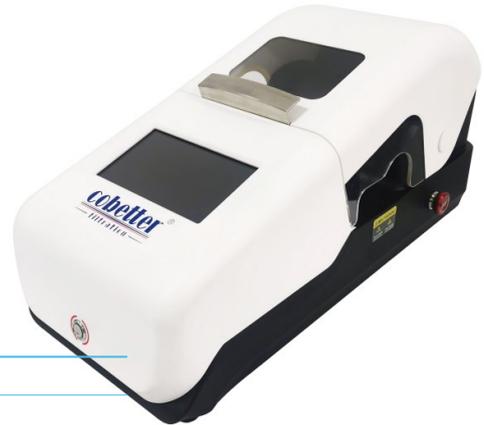
Parameters

Model	**LMTWPA0**
Input Voltage/Power	100-240 VAC 50/60 HZ 200 W
Screen	7 inch high-definition color touch screen
Dimension	L×W×H： 605mm×256mm×297 mm
Weight	18.5Kg
Applicable Environment	Operating Temperature 5℃~40℃ Humidity 20%-80%
Log Storage	USB export

Ordering Information

Name	Model	Unit/Box
Lifemeta™ Tube Welder	LMTWPA0	1 pcs
Blade	W-J-BJ-JGJ-006	50/box
1/8"*1/4"Tube Holder	W-J-JJ-JGJ-050	2 pcs/group
3/16"*5/16"Tube Holder	W-J-JJ-JGJ-058	2 pcs/group
1/4"*3/8"Tube Holder	W-J-JJ-JGJ-051	2 pcs/group
1/4"*7/16"Tube Holder	W-J-JJ-JGJ-052	2 pcs/group
ID3/8"*OD5/8"Tube Holder	W-J-JJ-JGJ-053	2 pcs/group
ID1/2"*OD3/4"Tube Holder	W-J-JJ-JGJ-054	2 pcs/group
ID5/8"*OD7/8"Tube Holder	W-J-JJ-JGJ-055	2 pcs/group
ID3/4"*OD1"Tube Holder	W-J-JJ-JGJ-056	2 pcs/group

Lifemeta™ CLSB-II Blade for Sterile Welder

Lifemeta CLSB-II blade is a special blade for Sartorius BioWelder® Total Containment. It is suitable for sterile connection of thermoplastic tubes for single-use products such as liquid storage bags and sampling bags, and supports the connection of dry or liquid-filled tubing.

In non-sterile environment, Lifemeta CLSB-II sterile welder blade achieve sterile and reliable connection of thermoplastic tubes on Sartorius Biowelder® TC Sterile Tube Welder, and this blade can be reused if cleaned and used properly.


Parameters

Product Name	Lifemeta CLSB- II Blade
Application	Biowelder® Total Containment
Material	Ni80Cr20
Coating	Non

Length	82.5 mm
Width	38.0 mm
Thickness	0.4 mm
Temperature Sensing Point	Yes
Number of Temperature Sensing Points	1
Temperature Sensing Point Size	r=7.4mm

Product Information

Product Name	Part	Product Description	Packaging
Blade	**CLSB-II**	Compatible with Sartorius BioWelder® Total Containment	50 pcs/PK

Filtration
Separation
Purification
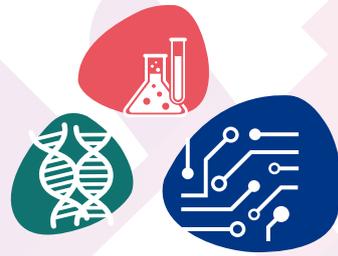
cobetter
filtration

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