

## Pre-filtration and Redundant Filter Series

# Corevital PMD

## Low Protein Binding and Hydrophilic Filter



### Features

- Composed of double-layer PVDF membrane
- Extensive chemical compatibility
- High dirt holding capacity
- Low protein binding

### Applications

- Pre-filtration of cell culture medium
- Buffer filtration
- Pre-filtration of terminal products
- Pre-column/ultra-filtration protection

### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

### Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Polyvinylidene fluoride (PVDF)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	1.0+0.45 µm	

### Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm <sup>2</sup>	C01 : 180cm <sup>2</sup>	L02 : 0.12m <sup>2</sup>	T10 : 0.55m <sup>2</sup>	5" : 0.28m <sup>2</sup>
	C02 : 420cm <sup>2</sup>	L03 : 0.16m <sup>2</sup>	T20 : 1.1m <sup>2</sup>	10" : 0.55m <sup>2</sup>
	C03 : 660cm <sup>2</sup>	L05 : 0.28m <sup>2</sup>	T30 : 1.65m <sup>2</sup>	20" : 1.1m <sup>2</sup>
	D01 : 350cm <sup>2</sup>	L10 : 0.55m <sup>2</sup>		30" : 1.65m <sup>2</sup>
		L20 : 1.1m <sup>2</sup>		40" : 2.2m <sup>2</sup>
		L30 : 1.65m <sup>2</sup>		

### Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricap C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45kGy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle, 30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

# Corevital (Liquid) Series Part Number Configurator (PVDF)

## Capsule Filter Example : C01TTSNDBA1P

### Bricap C Small Capsule Filter Series

Capsule Formats	Inlet	Outlet
<b>C01</b> Bricap C01	<b>K</b> 14 mm (9/16") Sanitary Flange	
<b>C02</b> Bricap C02	<b>T</b> 19 mm (3/4") Sanitary Flange	
<b>C03</b> Bricap C03	<b>F</b> 31 mm (1 1/4") Sanitary Flange	
	<b>A</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)	
	<b>B</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb	
	<b>L</b> 3.2mm(1/8") Hose Barb	
	<b>Y</b> 9.6mm(3/8") Hose Barb	
	<b>H</b> 13mm(1/2") Hose Barb	

Membrane Type
<b>PMDS</b> PMD 1.0+0.45µm

Sterilization	Quantity/Package	Market
<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>
<b>G</b> Gamma Compatible		
<b>S</b> Sterile		

### Bricap D Small Capsule Filter Series

<b>D01</b> Bricap D01	<b>A</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids & outlet only)
	<b>B</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb

### Bricap Inline Capsule Filters Series

Capsule Formats	Inlet	Outlet
<b>L02</b> Bricap L02	<b>K</b> 14 mm (9/16") Sanitary Flange	
<b>L03</b> Bricap L03	<b>T</b> 19 mm (3/4") Sanitary Flange	
<b>L05</b> Bricap L05	<b>S</b> 38 mm (1 1/2") Sanitary Flange	
<b>L10</b> Bricap L10	<b>Y</b> 9.6 mm(3/8") Hose Barb	
<b>L20</b> Bricap L20	<b>H</b> 13 mm (1/2") Hose Barb	
<b>L30</b> Bricap L30	<b>V</b> 14 mm(9/16" ) Hose Barb	
	<b>X</b> 16 mm (5/8") Hose Barb	
	<b>M</b> 19 mm(3/4" ) Hose Barb	
	<b>D</b> 25 mm (1") Hose Barb	

Sterilization	Quantity/Package	Market
<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>
<b>G</b> Gamma Compatible		
<b>S</b> Sterile		

### Bricap T Capsule

Capsule Formats	Inlet	Outlet	Gauge Port Type
<b>T10</b> Bricap T10			<b>S</b> 38 mm(1 1/2") Sanitary Flange
<b>T20</b> Bricap T20			<b>T</b> 19 mm (3/4") Sanitary Flange
<b>T30</b> Bricap T30			<b>N</b> Without Gauge Port
	<b>SS</b> 38mm(1 1/2") Sanitary Flange Inlet & Outlet		
	<b>SM</b> 38mm(1 1/2") Sanitary Flange Inlet & 19 mm (3/4") Hose Barb Outlet		

Sterilization	Quantity/Package	Market
<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>
<b>G</b> Gamma Compatible		
<b>S</b> Sterile		

### BriScale Disc Liquid Filter

Capsule Formats	Inlet	Outlet
<b>A50</b> BriScale A50	<b>A</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (outlet only)	
	<b>B</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb (no Filling Bell)	

Sterilization	Quantity/Package	Market
<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>
<b>G</b> Gamma Compatible	<b>2</b> 2 / pkg	
<b>S</b> Sterile		

## Cartridge Filter Example : APMDS050SP

### Cartridge Filters

Cartridge Type	Media	Length	Code	O-ring Material	Market
<b>A</b> Standard Cartridge Pharmaceutical	<b>PMDS</b> PMD 1.0+0.45µm	<b>05</b> 5 inch <b>10</b> 10 inch <b>20</b> 20 inch <b>30</b> 30 inch <b>40</b> 40 inch	<b>0</b> DOE <b>2</b> 226 / Flat <b>7</b> 226 / Fin <b>3</b> 222 / Flat <b>8</b> 222 / Fin	<b>E</b> EPDM <b>V</b> Fluoroelastomer <b>S</b> Silicone <b>P</b> FEP/PFA encap-sulated O-rings	<b>P</b>