

## ZenPure

# MKL Series Filter Capsules (Mini Capsule)

#### Versatile Small Capsule filter

PureFlo® MKL Series capsules were designed for small-scale filtration, clarification, and filling applications in the pharmaceutical, biotechnology, food and beverage, medical, chemical, water industries worldwide. This family of products is particularly suitable for scale-up testing where a full size capsule or cartridge would be excessive. They are also very suitable for disposable Bio-bag applications.

The MKL capsules have a compact design that can incorporate 200, 300, 400 or 500 cm2 of filtration material to meet the needs of different applications. We are currently offering nine different media options with 15 different fitting options. The different possible materials of construction can provides excellent compatibility with a widerange of chemicals such as acids, bases and solvents. No adhesives , binders, or surfactants are used in the manufacturing process. All units are thermally-sealed and 100% integrity tested.



Applications					
Low flow	Ink				
Lab scale testing	Beverages				
Bio Bags	Pharmaceuticals				
Fine Chemicals	Biologics				
Vent Filter	Scale up processing				
Water	Small volume				

#### **Specifications**

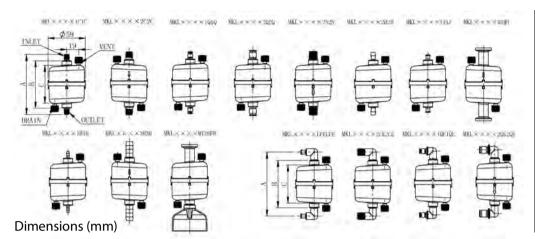
Materials of Construction:	Media: Polypropylene, Nylon, PTFE, Polyethylene, Glass Fiber, and PES Media Supports: Polypropylene or Polyester Cage, Core, End Caps: Polypropylene or Polyethylene Sealing: Thermally-welded
Fitting Connections:	See ordering guide for the availability. Any inlet/outlet combinations. (Custom adaptors available upon request)
Nominal Dimensions:	Lengths: 3.9 in. (99mm) Diameter: 2.3 in. (60 mm)
Available Ratings:	0.04um to 70um (see Ordering Guide)
Operating Conditions:	Maximum Operating Pressure: Liquid: 5.5 bar (80psi) at 77°F/25°C Gas: 4.1 bar (60psi) at 77°F/25°C Maximum Forward Differential Pressure: 5.0 bar (72 psid) at 68°F/20°C Maximum Reverse Differential Pressure: 2.1 bar (30 psid) at 176°F/80°C Maximum Operating Temperature: PP & Gamma PP: 176°F/80°C HDPE: 140°F/60°C Minimum Burst Pressure: 8.3 bar (120 psid) at 77°F/25°C
Sterilization:	The filters can be sterilized by autoclaving for up to 25 cycles at 125°C (250°F) for 30 minutes, except for PE membrane. The filters can also be sanitized by hot water or common chemicals that are compatible with polypropylene.
Regulatory Compliance:	The filters are constructed with polypropylene resins and filtration media in compliance

Biological Test for Plastic. (Except Blk PP)

with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI

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### MKL Series Filter Capsules



Fitting	Fitting Description		Size		
Code			В	C	
1C	1/8" Commpression	94	74	60	
2C	1/8" Commpression	99	74	60	
1Q	1/8"Male Quick Coupling	97	74	60	
2Q	1/4"Male Quick Coupling	102	74	60	
2N	1/4" MNPT	100	74	60	
2H	1/4" Hose Barb	98	74	60	
LF	Female Luer Lock	90	74	60	
MT	0.5" Tri Clamp	114	74	60	
1H	1/8" Hose Barb	96	74	60	
3H	3/8" Hose Barb	124	74	60	
MT2HFB	0.5" Tri Clamp by 1.4" Hose Barb		74	60	
	with Filling Bell	133	/4	00	
LFE	Female Luer Lock Elbow	100	74	60	
2CE	1/8" Commpression Elbow	100	74	60	
1QE	1/8"Male Quick Coupling Elbow	100	74	60	
2QE	1/4"Male Quick Coupling Elbow	100	74	60	

PureFlo MKL Series Filter Capsule Ordering Guide

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PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Surface Area	Inlet Fitting	Outlet Fitting	Option			
Standard grade  MKP = Pharma grade  ( For PTFE, PES and PE  Media only)	CN = Charged Nylon DP = Depth PolyPro E = Polyethylene F = PTFE G = Glass Fiber M = PolyPro Mem N = Nylon NS = Nylon Screen P = PolyPro Media HF = Hydrophilic PTFE S = PES	Pick From Pore Size Table	B = 300cm2 C = 400cm2 D = 500cm2	Elbow 2C = 1/4" Compression 2CE = 1/4" Compression Elbow 2H = 1/4" Hose barbs 2N = 1/4" MNPT 2NO = 1/4" MNPT+EP O-Ring 2Q = 1/4" Male Quick Coupling for Metal latch	1Q = 1/8" Male Quick Coupling 1QE = 1/8" Male Quick Coupling Elbow 2C = 1/4" Compression 2EE = 1/4" Compression Elbow 2H = 1/4" Hose barbs 2H-FB = 1/4" Hose barbs with Filling Bell 2H-FC = 1/4" Hose barbs with Filling Bell 2H-FC = 1/4" MNPT 2NO = 1/4" MNPT 2NO = 1/4" MAPT+EP O-Ring 2Q = 1/4" Male Quick Coupling for Metal latch 2QE = 1/4" Male Quick Coupling for Metal latch Elbow 2QF = 1/4" Female Quick Coupling with Metal 3H = 3/8" Hose Barb	-NY = Nylon Shell  -BLK = Black PP Shell -BLK = Black PP Shell -ETO = Ethylene oxide  O-Ring for Quick Coupling			
	Example - MKL Series, PTFE, 1.0um, 500cm2, 1/4" Hose Barb I/O is MKLF100D2H2H								

Charged Polypro Nylon Screen Depth PP (DP) Polyethylene (E) PTFE (F) Glass Fiber (G) Nvlon (N) Nylon (CN) PP Media (P) Philic PTFF PES (S) 005 = 0.05002 = 0.2020 = 0.20= 0.1 005 = 0.5 005 = 0.05005 = 0.05 010 010 = 0.1003 = 0.3= 10 Reauest 010 = 0.10005 = 0.5100 = 1.0 020 = 0.2 010 = 1.0020 = 0.2010 = 0.10200 = 20006 = 0.6010 = 0.1020 = 0.20 010 = 1.0 150 = 1.5 045 = 0.45 030 = 3.0 020 = 0.20 400 = 40 010 = 1.0 020 = 0.2 045 = 0.45 = 1.0 050 = 5.0 045 = 0.45 600 = 60 030 = 3.0 045 = 0.45 065 = 0.65 025 = 2.5 300 = 3.0 100 = 10.0 065 = 0.65 10X = 100065 = 0.65 050 = 5.0 080 = 0.80500 = 5.0045 = 45200 = 20.0080 = 0.8020X = 200100 = 100080 = 0.8120 = 1.20 100 = 10.0 = 10.0 300 = 30.0 120 = 1.20 200 = 20.0 120 = 1.2 200 = 20.0300 = 30.0 500 = 50.0700 = 70.0Only available Only available Only available Only available Only available in Surface Area C (400cm2) A (<200cm2) C (400cm2) C (400cm2) C (400cm2)



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