

MZP Series Capsules (Mini Capsule)

Versatile Small Capsule

PureFlo® MZP (part of the MKL Series) capsule filter assemblies are ready-to-use filters, ideally suited for disposable Bio-bag applications. They offer mid-scale filtration with the convenience and cleanliness of an easy-to-install disposable filter assembly for the pharmaceutical, biotechnology, food and beverage, medical, chemical, water industries worldwide. The main benefit is ease of pre and post integrity testing for the validation of filtered product.

The MZP capsules have a compact design that can incorporate 200, 300, 400 or 500 cm² of filtration material to meet the needs of different applications. Process engineers can choose from 4 different filtration medias with 26 different fitting options to create any *integrated* filtration product. This will allow the post integrity testing process to become truly quick and easy.

No adhesives, binders, or surfactants are used in the manufacturing process. All units are thermally-sealed and 100% integrity tested.

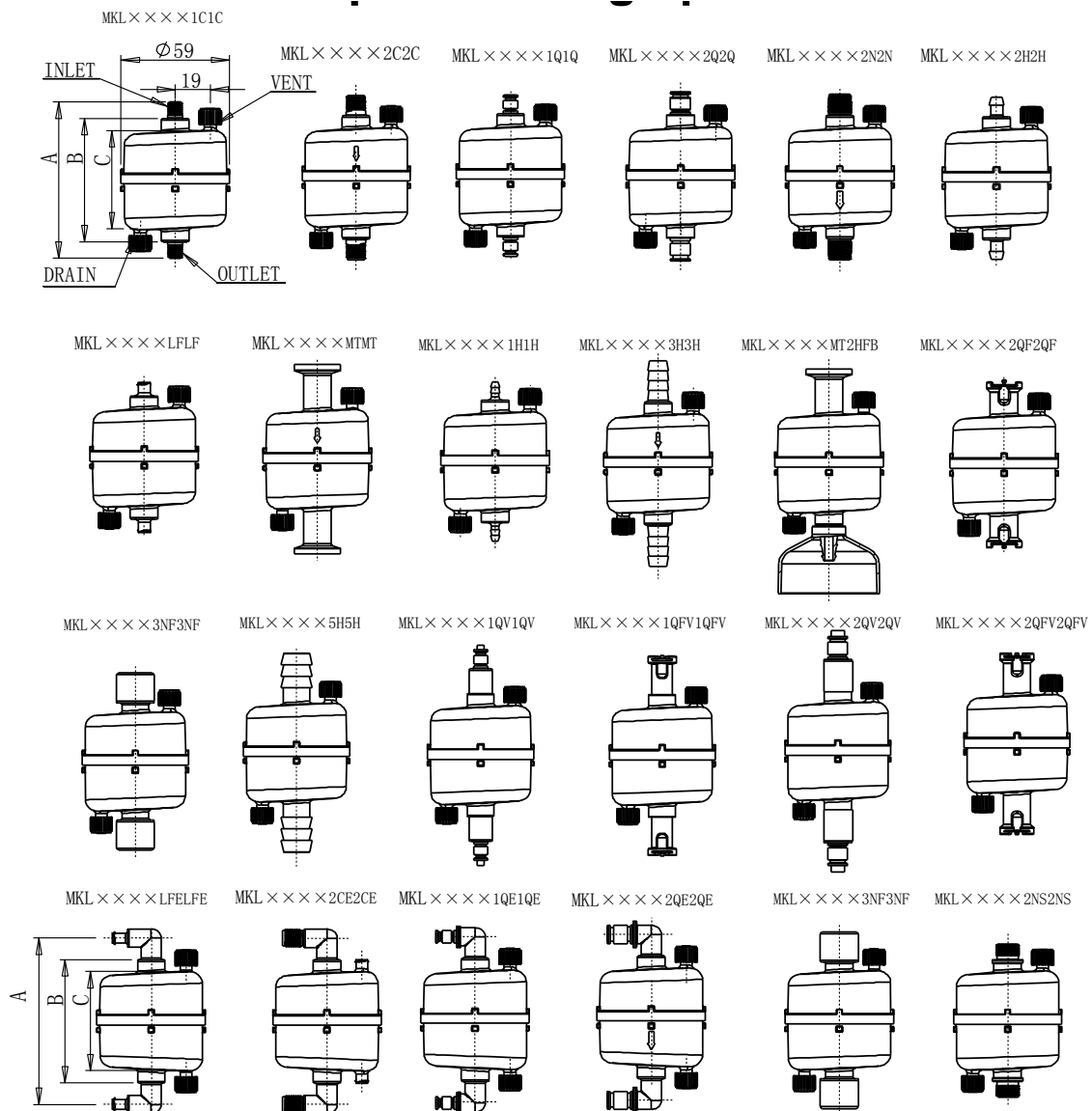


Applications	
Low Flow	Pharmaceuticals
Lab Scale Testing	Biologics
BioBags Scale-up	Processing
Water Small	volume

Specifications

Materials of Construction: Media	Media: Nylon, PTFE, and PES Supports: Polyester
Sealing:	Shell, Cage, Core: Polypropylene ; Internal End Caps: Nylon Thermally-welded/ O-rings
Fitting Connections:	See ordering guide for the availability. Any inlet/outlet combinations. (Custom adaptors available upon request)
Nominal Dimensions: Diameter:	Length: 3.9 in. (99 mm) 2.3 in. (60 mm)
Available Ratings:	0.04 µm to 70 µm (see Ordering Guide)
Operating Conditions:	Maximum Operating Pressure: Liquid: 5.5 bar (80 psi) at 22 °C Gas: 4.1 bar (59.5 psi) at 22 °C Maximum Forward Differential Pressure: 5.0 bar (72.5 psid) at 22 °C Reverse Differential Pressure: 2.1 bar (30.5 psid) at 80 °C Minimum Burst Pressure: 8.3 bar (120 psid) at 22 °C Maximum Operating Temperature: PP, Gamma PP & Nylon: 80 °C
Autoclavable & Sanitizable:	Polypropylene and Nylon shell capsules can be autoclaved 25 times at 125 °C (257 °F) for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 90 °C (194 °F) for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized. Polyethylene Shelled Capsules can not be autoclaved.
Regulatory Compliance:	The filters are constructed with resins and filtration media in compliance with 21 CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic. Flammability rating for the PP shell material is UL94HB.

MZP (MKL Series Fitting options and Sizes)



Code name	Inlet/Outlet	Vent/Drain	Size (±.5)		
			AB		C
MKL××××1C1C	1/8" Compression	Female Luer Lock	94	74	60
MKL××××2C2C	1/4" Compression	Female Luer Lock	99	74	60
MKL××××1Q1Q	1/8" Male Quick Coupling	Female Luer Lock	97	74	60
MKL××××2Q2Q	1/4" Male Quick Coupling	Female Luer Lock	102	74	60
MKL××××2N2N	1/4" MNPT	Female Luer Lock	100	74	60
MKL××××2H2H	1/4" Hose barbs	Female Luer Lock	98	74	60
MKL××××LFLF	Female Luer Lock	Female Luer Lock	90	74	60
MKL××××MTMT	0.5" Tri clamps	Female Luer Lock	114	74	60
MKL××××1H1H	1/8" Hose barbs	Female Luer Lock	96	74	60
MKL××××3H3H	3/8" Hose barbs	Female Luer Lock	124	74	60
MKL××××MT2HFB	0.5" Tri clamps/1/4Hose barbs	Female Luer Lock	135	74	60
MKL××××2QF2QF	1/4" Female Quick Connect	Female Luer Lock	100	74	60
MKL××××3NF3NF	3/8" FNPT	Female Luer Lock	106	74	60
MKL××××2NS2NS	1/4" NPTS	Female Luer Lock	92	74	60
MKL××××5H5H	5/8" Hose barbs	Female Luer Lock	120	74	60
MKL××××1QV1QV	1/8" Male Quick Coupling	Female Luer Lock	133	74	60
MKL××××1QFV1QFV	1/8" Female Quick Connect	Female Luer Lock	120	74	60
MKL××××2QV2QV	1/4" Male Quick Coupling	Female Luer Lock	145	74	60
MKL××××2QFV2QFV	1/4" Female Quick Connect	Female Luer Lock	109	74	60
MKL××××LFELFE	Female Luer Lock	Female Luer Lock	100	74	60
MKL××××2CE2CE	1/4" Compression	Female Luer Lock	100	74	60
MKL××××1QE1QE	1/8" Male Quick Coupling	Female Luer Lock	100	74	60
MKL××××2QE2QE	1/4" Male Quick Coupling	Female Luer Lock	100	74	60

Dimensions (mm)

MZP Series Capsules



PureFlo MZP Series Capsule Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Surface Area	Inlet Fitting	Outlet Fitting	Options
MZP = Pharma grade (For PTFE, PES and PE Media only) Nylon end-caps Polyester Membrane support Polypropylene Shell, Cage & Core	CN = Charged Nylon HF = Hydrophilic PTFE N = Nylon S = PES	Pick From Pore Size Table	A = 200cm ²	1C = 1/8" Compression	1C = 1/8" Compression	Shell Material Blank = Polypro construction -E = Polyethylene shell and HDPE media support for gamma sterilization -GP = Gamma stable polypropylene -NY = Nylon Shell Vent & Drain -N = No vent or drain fittings -NI = No vent or drain inlet fitting -NO = NO vent or drain outlet fitting Sterilization -ETO = Ethylene oxide sterilization O-Ring for Quick Coupling Blank = O-ring Silicone (Standard) -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton Prefilter (add before Filter Media in part#) G(pore Size) = Glass Fiber Prefilter P(pore Size) = PolyPro Media Prefilter S(pore Size) = PES Prefilter
			B = 300cm ²	1H = 1/8" Hose Barb	1H = 1/8" Hose Barb	
			C = 400cm ²	1Q = 1/8" Male Quick Coupling	1Q = 1/8" Male Quick Coupling	
			D = 500cm ²	1QF = 1/8" Female Quick Coupling	1QF = 1/8" Female Quick Coupling	
				1QE = 1/8" Male Quick Coupling	1QE = 1/8" Male Quick Coupling Elbow	
				1QFV = 1/8" Female Quick Connect	1QFV = 1/8" Female Quick Connect w/Valve	
				1QV = 1/8" Male Quick Connect	1QV = 1/8" Male Quick Connect w/Valve	
				2C = 1/4" Compression	2C = 1/4" Compression	
				2CE = 1/4" Compression Elbow	2CE = 1/4" Compression Elbow	
				2H = 1/4" Hose barbs	2H = 1/4" Hose barbs	
				2N = 1/4" MNPT	2N = 1/4" MNPT	
				2NO = Short 1/4" MNPT+EP O-Ring	2NO = Short 1/4" MNPT+EP O-Ring	
				2NS = Short 1/4" MNPT	2NS = Short 1/4" MNPT	
				2Q = 1/4" Male Quick Coupling for	2Q = 1/4" Male Quick Coupling for Metal latch	
				2QE = 1/4" Male Quick Coupling for	2QE = 1/4" Male Quick Coupling for Metal latch	
				2QF = 1/4" Female Quick Coupling	2QF = 1/4" Female Quick Coupling with Metal latch	
				2QFV = 1/4" Female Quick Connect	2QFV = 1/4" Female Quick Connect w/Valve	
				2QV = 1/4" Male Quick Connect	2QV = 1/4" Male Quick Connect w/Valve	
				3H = 3/8" Hose Barb	3H = 3/8" Hose Barb	
				3NF = 3/8" Female NPT	3NF = 3/8" Female NPT	
				5H = 5/8" Hose Barb	5H = 5/8" Hose Barb	
				LF = Female Luer Lock	LF = Female Luer Lock	
				LFE = Female Luer Lock Elbow	LFE = Female Luer Lock Elbow	
				MT = 1/2" Tri clamps	MT = 1/2" Tri clamps	
					2H -FB = 1/4" Hose barbs with Filling Bell	
					2H -FC = 1/4" Hose barbs with Filling Bell w/ Cap	

Example - MZP Series, PES, 0.2um, 500cm², 1/4" Hose Barb I/O is **MZPS020D2H2H**

PureFlo MZP Series Media & Pore Size options

Pore size (Micron)			
Charged Nylon (CN)	Philic PTFE (HF)	Nylon (N)	PES (S)
005 = 0.05	010 = 0.1	005 = 0.05	005 = 0.05
010 = 0.10	020 = 0.2	010 = 0.10	010 = 0.1
020 = 0.20	045 = 0.45	020 = 0.20	020 = 0.2
045 = 0.45	100 = 1.0	045 = 0.45	045 = 0.45
065 = 0.65	300 = 3.0	065 = 0.65	065 = 0.65
080 = 0.80	500 = 5.0	080 = 0.80	080 = 0.8
120 = 1.20	999 = 10.0	120 = 1.20	120 = 1.2



904 N. Frederic St. Burbank, CA 91505
 www.internationalfilterproducts.com
 sales@internationalfilterproducts.com
 Phone: (818) 841-2702
 Fax: (818) 841-2947

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