

# LiquiPro™ MI

## Disposable Capsule Filters

LiquiPro™ MI are high purity disposable filters offered with 3 different types of high-performance membranes: hydrophobic PTFE membrane; Nylon membrane and PES membrane with UHP virgin grade PP support materials for critical high purity photochemical point-of-use filtration applications.

### Features and Benefits

- Ultra-clean filter design. Filter design, materials selection and UHP decontamination procedure are optimised to eliminate shedding and extractables to ensure reliable downstream cleanliness.
- LiquiPro™ MI provide excellent chemical compatibility to make these filters ideal for point-of-use photochemical filtration applications, including a broad range of photoresists and solvent.
- LiquiPro™ MIDF PTFE series uses high performance PTFE membrane for removal of hard and small particles from aggressive solvent based photochemicals.
- LiquiPro™ MIDH Nylon series helps to eliminate micro-bridging defects in photoresist and cone defects in the anti-reflective coatings.
- LiquiPro™ MIDB PES series uses the highest quality PES membrane which is hydrophilic to positive developers such as TMAH and DI to eliminate the formation of bubbles and micro-bubbles during the spin rinse process.



### Typical Applications

- MIDB: Point of use developer (KOH, TMAH) and DI water.
- MIDF: Point of use IPA, acetone and other solvents.
- MIDH: Point of use Photoresist.

### Performance Specifications

#### Pore size rating

0.05, 0.1, 0.2  $\mu\text{m}$

#### Maximum operating pressure:

6.0 bar (87 psid) @ 25°C (77°F)

#### Membrane area:

Short Series: 1000-1150  $\text{cm}^2$  (155-178  $\text{in}^2$ )

Long Series: 2000-2300  $\text{cm}^2$  (310-356  $\text{in}^2$ )

#### Maximum operating temperature

60°C (140°F)

### Capsule Dimensions

Length code	Connections	Diameter (Housing) mm / +/- 1mm	Diameter (Max.) mm / +/- 1mm	Length mm / " +/- 1mm	
Short	S44	67.5 +/- 2.66	71.0 +/- 2.79	114.0 +/- 4.49	
	N42			116.0 +/- 4.57	
	N62			124.0 +/- 4.88	
	N84			127.0 +/- 5.00	
	P44			121.7 +/- 4.79	
	PM64				
Long	S84				179.0 +/- 7.05
	P64				193.2 +/- 7.61
	P84				
	PM84				
	F64				209.8 +/- 8.26
	N82		186.0 +/- 7.32		

### Ordering Information

To form a part number, please chose one option from each column below.

Product Code: **1** **2** **3** **4** **5** **MIDFS005S2P**

Product Name		Length	Micron Rating		Connections	Cleanliness	
MIDF	LiquiPro MI Disposable Capsule PTFE / PP	S Short	005	0.05µm	S2	1/2" Compression I/O	P UPW Pre-Flushed
		L Long	010	0.1µm	S4	1/4" Compression I/O	U Ultra High Purity
MIDH	LiquiPro MI Disposable Capsule Nylon / PP		020	0.2µm	N2	1/2" NPT male I/O	
			Other options available			1/8" NPT Male Vent	
MIDB	LiquiPro MI Disposable Capsule PES / PP				N4	1/4" NPT male I/O	
						1/8" NPT Male Vent	
					P2	1/2" Super Pillar I/O	
						1/4" Super Pillar Vent	
					P4	1/4" Super Pillar I/O	
						1/8" Super Pillar Vent	
				P8	3/8" Super Pillar I/O		
					1/4" Super Pillar Vent		
				M6	6mm Super Pillar I/O		
					4mm Super Pillar Vent		
				M8	8mm Super Pillar I/O		
					4mm Super Pillar Vent		
				F6	3/8" Flaretek I/O		
					1/4" Flaretek Vent		