

# PHOTOGILE® POU PHOTOCHEMICAL DISPENSE SYSTEM FILTERS

## POINT-OF-USE FILTERS FOR USE IN PHOTORESIST DISPENSE PUMPS AND SYSTEMS

Photogile® Point-of-Use Filters are ideal for use in lithography photoresist dispense pumps and systems.

The filters are available with UPE (Ultra-High Molecular Weight Polyethylene), Nylon 6,6, or Multi purification membranes to ensure rapid startup for selected photoresists, coatings, and solvents, including ArF, BARC, KrF, top coat, and pre-thinners.

Photogile POU filters ensure excellent retention, cleanliness and high chemical compatibility to meet the critical demands in semiconductor processes. These low hold-up volume filters minimize chemical waste.

Cobetter's superior cleaning of the high purity HDPE (high-density polyethylene) support/core/gage/endcaps/shell ensures high cleanliness.

Cobetter Photogile filters are available in a wide variety of retention ratings to meet your process requirements.

FEATURE	BENEFIT
<b>Available in UPE, Nylon, and Multi-Membrane Configurations</b>	UPE and nylon wets out easily with most solvents and resists.
	UPE highly efficient removal of hard and soft particles
<b>Low hold-up volume</b>	Reduces expensive photochemical waste
<b>Industry Standard Size/Fitting Connections</b>	Ideal for use in a variety of photodispense systems and independent manifolds.
<b>Available with or without o-ring</b>	Provides installation flexibility to compatible dispense systems and manifolds
<b>HDPE supports and structure</b>	High chemical compatibility
	High cleanliness, including low metal extractables
<b>Prewet option</b>	Reduces pre-operation time
	Easy start up with aqueous-based solutions

### SPECIFICATIONS

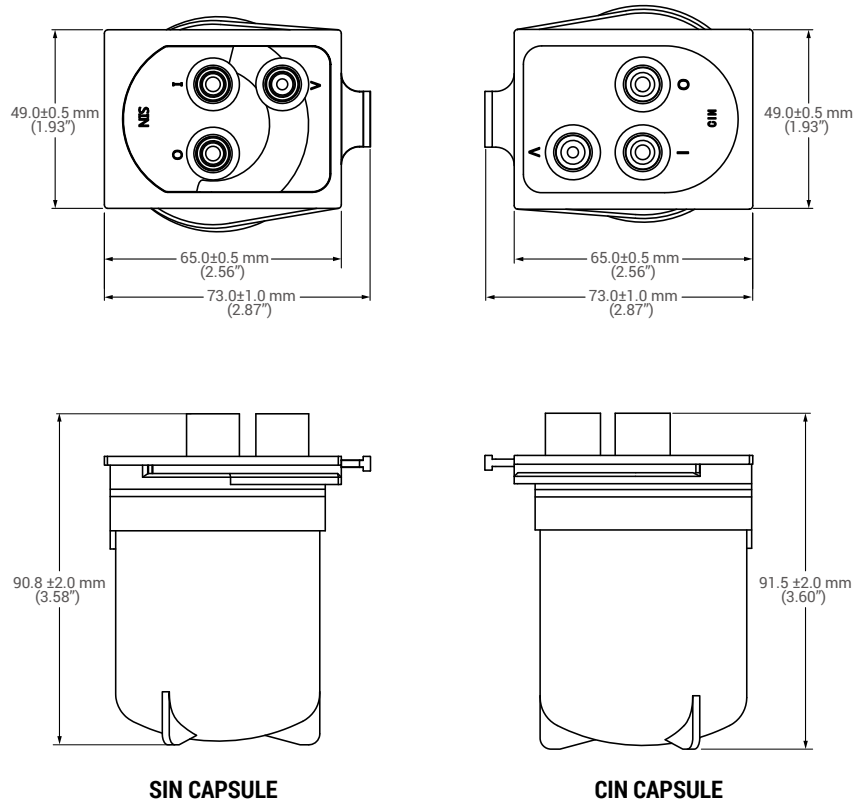
<b>Filter media</b>	UPE, Nylon 6,6, or Multi (dual layer nylon + UPE)
<b>Supports/core/cage/end caps/Shell</b>	HDPE
<b>O-rings (cartridge only)</b>	Kalrez® or FFKM
<b>Max. operating temperature</b>	40°C
<b>Max. operating pressure</b>	0.34 MPa (3.4 bar, 49 psi) at 25°C



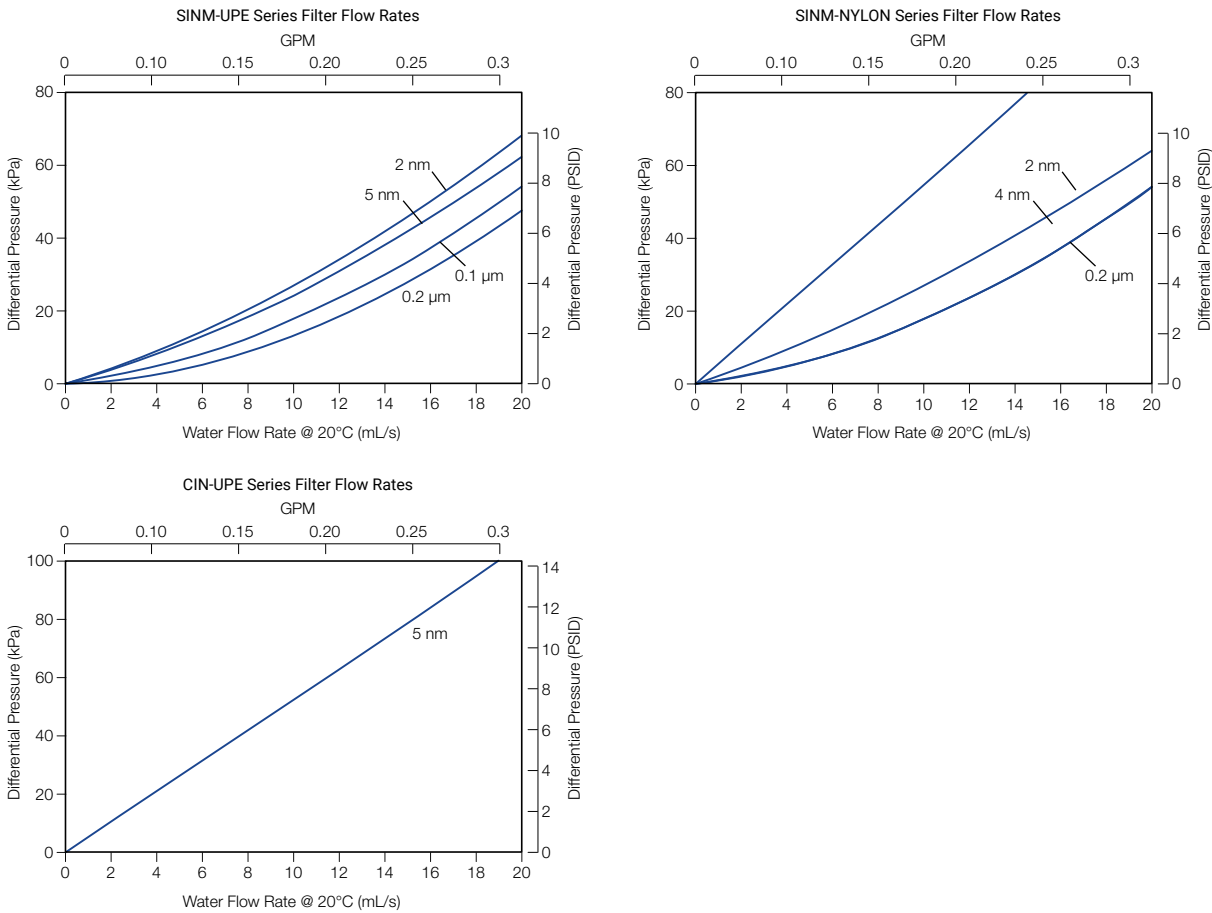
### Typical Applications

- Photoresist Filtration
- Solvent Filtration - ArC,F, KrF, BARC, pre-thinners
- Top Coats

PHOTOGILE POU DIMENSIONS

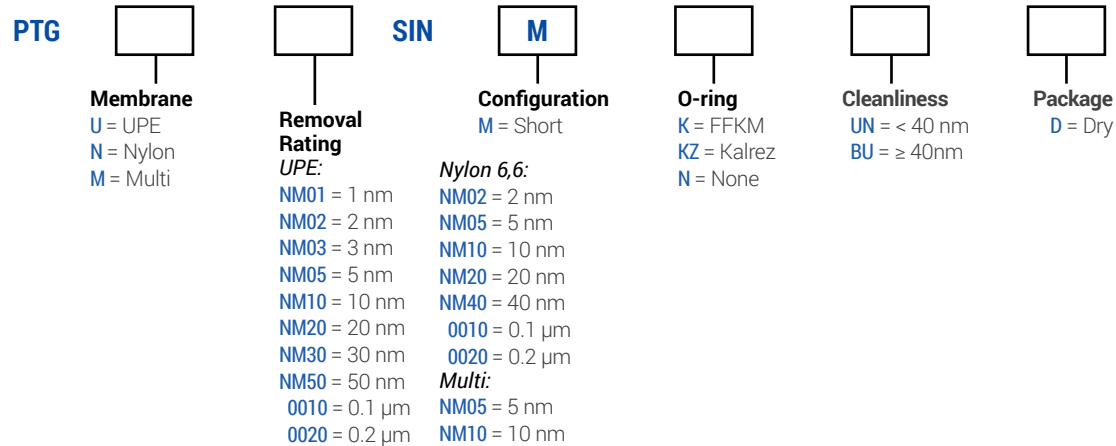


PHOTOGILE POU FLOW CURVES



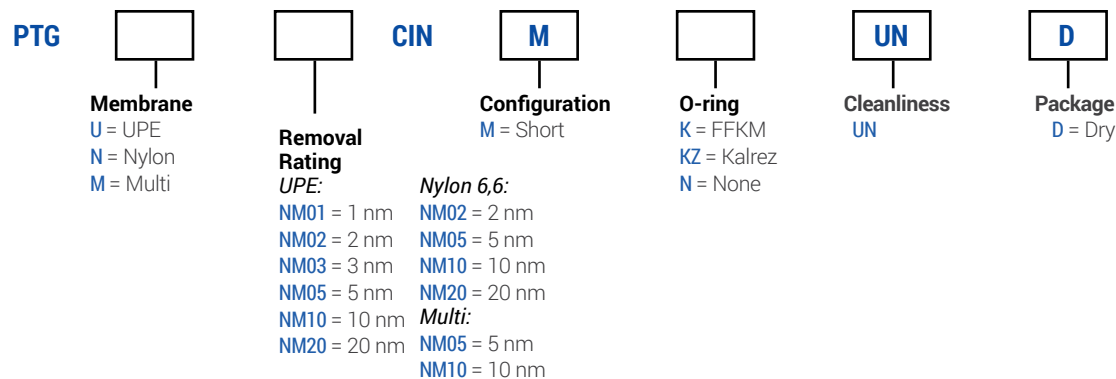
## PHOTOGILE PTG SIN ORDERING INFORMATION

EXAMPLE: **PTGUNM02SINMKUNW** = UPE membrane, 2 nm, short, FFKM o-ring, < 40nm device

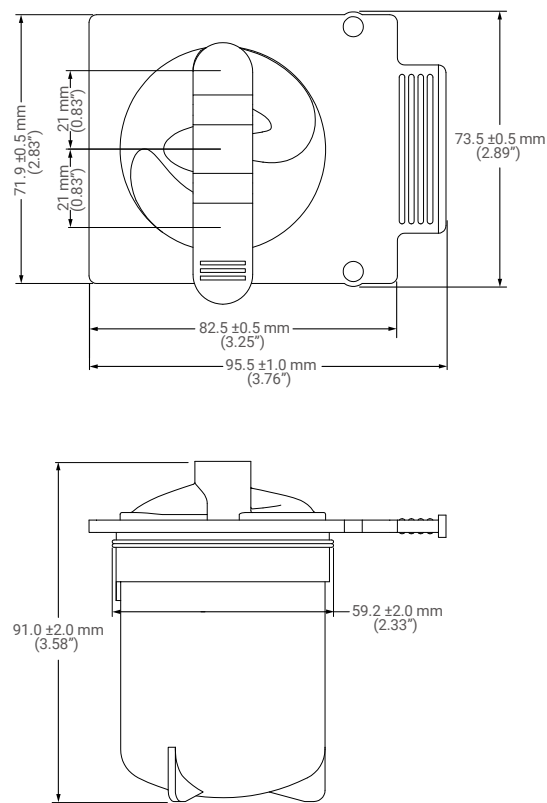


## PHOTOGILE PTG CIN ORDERING INFORMATION

EXAMPLE: **PTGUNM02CINMKUNW** = UPE membrane, 2 nm, short, FFKM o-ring, < 50nm device



PHOTOGILE PTG PIN DIMENSIONS



PHOTOGILE PTG PIN ORDERING INFORMATION

EXAMPLE: **PTGUNM20PINKUND** = UPE membrane, 20 nm, FFKM o-ring, < 40nm device cleanliness

PTG			PIN			
	<div>Membrane</div>			<div>O-ring</div>		<div>D</div>
	U = UPE			K = FFKM		UN = <40 nm
	N = Nylon 6,6			KZ = Kalrez		BU = ≥40 nm
				N = None		
		<div>Removal Rating</div>				
		UPE:	Nylon 6,6:			
		NM10 = 10 nm	NM10 = 10 nm			
		NM20 = 20 nm	NM20 = 20 nm			
		NM30 = 30 nm	NM40 = 40 nm			
		NM50 = 50 nm	0010 = 0.1 μm			
		0010 = 0.1 μm				
		0020 = 0.2 μm				



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CBBPP1156 Rev. 01202022  
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