

Microgard™ PI Bulk High-Viscosity Filters

Bulk, high-viscosity, photochemical filter with good flow rate and contaminant retention performance

Microgard™ PI filters remove particles, gels and other contaminants in bulk chemical distribution systems (BCDS) to deliver low surfactant binding, excellent membrane wettability and downstream cleanliness. Designed exclusively for high-viscosity chemical filtration in 45–90 nm technology nodes, Microgard PI filters minimize metallic and ionic contamination that can leach from filters constructed of alternate materials.

APPLICATIONS

- Polyimide and other high-viscosity chemicals



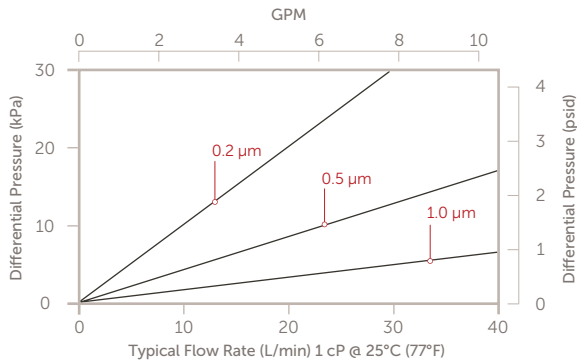
FEATURES & BENEFITS

Hydrophobic UPE membrane	Eliminates the need for prewetting and flushing; avoids dewetting in outgassing fluids Increases equipment uptime and provides more consistent filtration
Large filtration area	Provides maximum flow rate in a compact design
High retention rating: >99.999% at stated retention rating	Low particle counts in bulk chemical production
Superior membrane wettability	Eliminates prewetting time, reducing chemical usage while reducing system downtime during filter changeouts
All-polyethylene construction	Reduces particle contamination with superior downstream cleanliness Lowers metallic and ionic contamination that can leach from filters that are manufactured with alternate materials
Additional downstream membrane support	Provides durability for high-viscosity filtration

SPECIFICATIONS

Materials of construction	Membrane	Hydrophobic UPE
	Support, core, sleeve	HDPE
	O-ring	E-FKM
Filter type	Symmetric	
Retention rating	0.2 µm, 0.5 µm, 1.0 µm	
Membrane area	0.2 µm	0.88 m ² (9.47 ft ²)
	0.5 µm, 1.0 µm	0.80 m ² (8.6 ft ²)
Maximum operating conditions	Maximum forward differential pressure:	
	0.39 MPa (4 bar, 56.6 psid, 4 kg/cm ²) @ 25°C (77°F)	
	Maximum reverse pressure:	
	0.25 MPa (2.5 bar, 36.3 psid, 2.5 kg/cm ²) @ 25°C (77°F)	
Maximum operating temperature:		
60°C (140°F)		

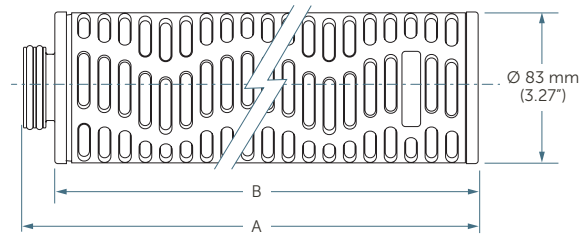
PERFORMANCE DATA



DIMENSIONS

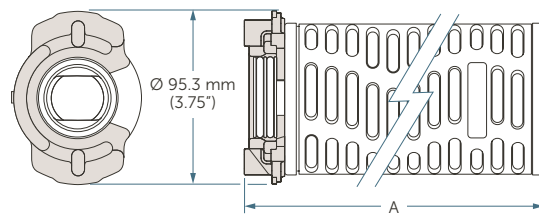
Code 0 (83 mm width) Filters

Without Chemlock Key



Length	A	B
10"	242.3 mm (9.54")	225.0 mm (8.86")
20"	471.0 mm (18.5")	453.7 mm (17.9")

With Chemlock Key



Length	A*
10"	246.5 mm (9.71")
20"	493.0 mm (19.41")

*Cartridge with key

ORDERING INFORMATION

This information serves as a guide. Please contact your local representative to confirm part numbers.

Microgard PI Cartridge Filters: part number

PIA 0 P01K

Optional Chemlock key attached to cartridge for use with Chemlock housing ONLY

Cartridge length
1 = 10"
2 = 20"

Retention rating
G = 0.2 μm
H = 0.5 μm
A = 1.0 μm

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the Contact Us link to find the customer service center nearest you.

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