



IMPACT[®] 2 DISPOSABLE FILTERS

Rapid changeout UPE membrane filters for point-of-use photochemical filtration, including photoresists and solvents



the solution for rapid filter changeout

Overview

Less Handling, More Cleanliness and Safety

The Impact® 2 filter quickly connects and seals with the Impact® 2 manifold to provide rapid filter changeout while eliminating the handling of the filter element. This unique design reduces potential exposure to hazardous chemicals during installation and disposal and promotes a safer working environment.

Superior Design

- Compact design provides easy installation
- Designed for use with next generation photo-chemical dispense systems.

Superior Manufacturing

- Manufactured in a world-class, ISO 9001 Quality Systems Standard facility
- Manufactured, tested and packaged in a cleanroom to ensure product cleanliness

Superior Performance and Retention

- Unique and patented features minimize on-wafer defects
- 0.01 µm retention for critical applications

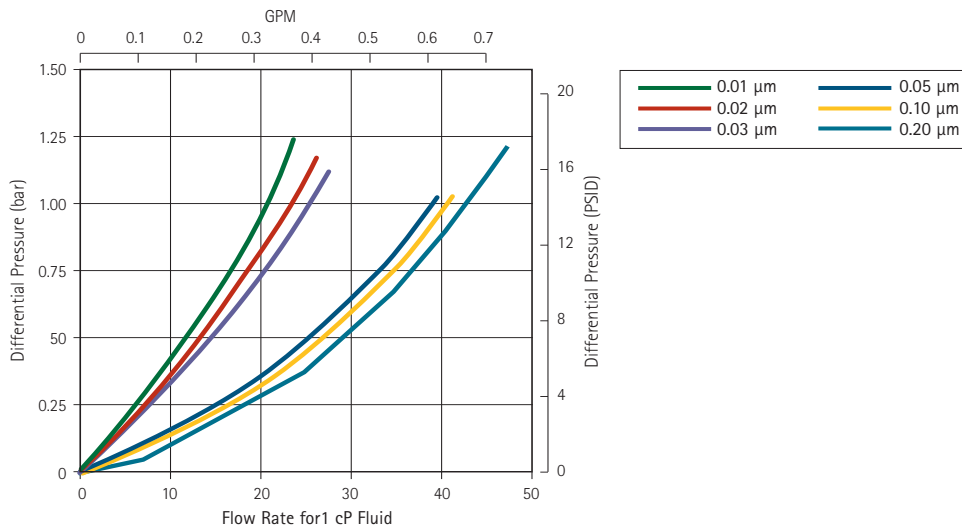
Features	Benefits
Design optimized for use with the Impact® 2 manifold	Rapid filter changeout and ease of use to maximize equipment uptime
Minimal chemical exposure, rapid connection design	Allows quick filter installation and minimizes downtime while limiting the handling of hazardous chemicals during the installation and disposal processes, thereby promoting a more healthy workplace
Small footprint	Allows installation of more filters on tools for advanced systems
Low holdup volume	Minimizes chemical waste
Available in retention ratings of 0.01 µm and 0.02 µm	Tightest membrane technology to meet critical line-width processes
New 0.01 µm pleating technology	Impact® 2 0.01 µm products incorporate 40% more membrane within the same footprint as 0.03 µm and 0.05 µm Impact® 2 filters, providing the benefits of ultrafine retention without a flow or pressure drop penalty

Specifications

Materials:	Membrane:	Ultra-high molecular-weight polyethylene (UHMWPE)
	Supports (upstream, downstream and mold):	High-density polyethylene (HDPE)
Manifold fittings:	6.35 mm Flowell® 60 type	
	5/3 mm Flowell® 60 type	
	6/4 mm Flowell® 60 type	
	6.35 mm Super Type Pillar®	
Maximum operating conditions:	Maximum inlet pressure :	0.34 MPa (3.4 bar, 50 PSI) @ 25°C (77°F)
	Maximum forward/reverse differential pressure:	0.27 MPa (2.7 bar, 40 psi) @ 25°C (77°F)
	Maximum operating temperature:	40°C (104°F)
Membrane area:	0.01 µm	1,390 cm ² (1.5 ft. ²)
	0.02 µm	1,300 cm ² (1.4 ft. ²)
	All others	1,000 cm ² (1.08 ft. ²)
Holdup volume:	≤55 cc	
Compatibility:	PGMEA, PGME, NMP, ethyl lactate, MMP, and cyclohexanone	
	Not recommended for use with photochemicals containing aromatic hydrocarbons	
Wettability:	Spontaneously wets in butyl acetate, PGMEA, PGME, ethyl lactate, MMP, ECA, NMP and other photochemical solvents	

Performance Data

Flow Rate



Ordering Information

FILTERS	Part Number	
	with o-ring*	with no o-ring
Impact® 2 Filter, 0.01 µm	A2AT 00M K1	A2AT 00M 01
Impact® 2 Filter, 0.02 µm	A2AX 000 K1	A2AX 000 01
Impact® 2 Filter, 0.03 µm	A2AY 000 K1	A2AY 000 01
Impact® 2 Filter, 0.05 µm	A2AZ 000 K1	A2AZ 000 01
Impact® 2 Filter, 0.10 µm	A2AV 000 K1	A2AV 000 01
Impact® 2 Filter, 0.20 µm	A2AG 000 K1	A2AG 000 01

*Kalrez® perfluoroelastomer

MANIFOLDS	Part Number	
	with o-ring*	with no o-ring
Impact® 2 Manifold, Flowell™ 60 Type, 6.35 mm	A2MX 222 K1	A2MX 222 01
Impact® 2 Manifold, Flowell™ 60 Type, 5/3 mm	–	A2MX 555 01
Impact® 2 Manifold, Flowell™ 60 Type, 6/4 mm	–	A2MX 666 01
Impact 2 Manifold, Super Type Pillar® Fittings, 6.35 mm	A2MP 222 K1	A2MP 222 01

*Kalrez® perfluoroelastomer

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