

# Impact<sup>®</sup> 2 V2 Filter

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

The Impact<sup>®</sup> 2 V2 filter quickly connects and seals with the Impact 2 manifold and IntelliGen<sup>®</sup> dispense systems 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 Impact 2 manifold, IntelliGen 3, and IntelliGen Mini 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
- 10 nm retention for critical applications
- Newly introduced asymmetric membrane with 10 nm retention and lower pressure drop performance

## APPLICATIONS

- Point-of-use photochemical filtration, including photoresists and solvents
- Designed for use with Impact 2 manifold and IntelliGen<sup>®</sup> dispense systems



## FEATURES & BENEFITS

<b>Design optimized for use with the Impact 2 manifold and IntelliGen dispense systems</b>	Enables rapid filter changeout and ease of use, maximizing equipment uptime
<b>Minimal chemical exposure, rapid connection design</b>	Allows quick filter installation and minimizes downtime while limiting the handling of hazardous chemicals during the installation and disposal processes, promoting a healthier workplace
<b>Small footprint</b>	Allows installation of more filters on tools for advanced systems
<b>Low holdup volume</b>	Minimizes chemical waste
<b>10 nm plating technology</b>	Impact 2 V2 10 nm products incorporate more membrane within the same footprint as 0.03 $\mu\text{m}$ and 0.05 $\mu\text{m}$ Impact 2 V2 filters, providing the benefits of ultrafine retention without a flow or pressure drop penalty

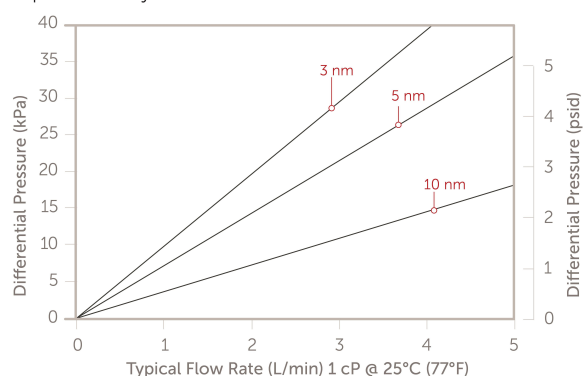
## SPECIFICATIONS

<b>Materials of construction</b>	Membrane	UPE, nylon, Duo (UPE/nylon), PCM
	Supports (upstream, downstream and mold)	HDPE
<b>Retention ratings</b>	UPE	Short: 10 $\mu\text{m}$ – 3 nm; Long: 0.05 $\mu\text{m}$ , 20 nm
	Nylon	0.05 $\mu\text{m}$ , 20 nm, 10 nm
	Duo (UPE/Nylon)	30 nm, 10 nm
	PCM (surface modified UPE)	Short: 20 nm; Long: 20 nm
<b>Maximum operating conditions</b>	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, 39 psi) @ 25°C (77°F)
	Maximum operating temperature	40°C (104°F)
<b>Membrane area</b>	Asymmetric nylon	840 cm <sup>2</sup> (0.90 ft <sup>2</sup> )
	Asymmetric PCM	Short: 1350 cm <sup>2</sup> (1.45 ft <sup>2</sup> )
		Long: 2500 cm <sup>2</sup> (2.69 ft <sup>2</sup> )
	Duo (UPE/Nylon)	850 cm <sup>2</sup> (0.92 ft <sup>2</sup> )
<b>Hold-up volume</b>	$\geq 55$ cc	
<b>Compatibility</b>	Visit our <a href="#">Chemical Compatibility</a> web page	
<b>Wettability</b>	Spontaneously wets in PGMEA, PGME, and other photochemical solvents.	
<b>Fittings</b>	<a href="#">Impact 2 filter manifold</a>	

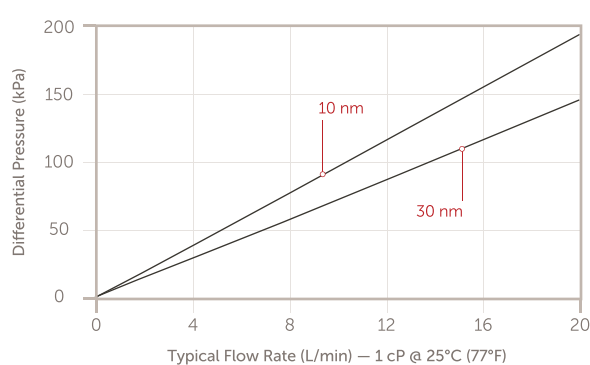
Entegris recommends that customers change filters at least annually to ensure optimal filtration performance. Routine annual changeout will also reduce the potential of chemical leakage that can result from excessive usage. Our standard warranty period is 1 year (from Entegris ship date).

## PERFORMANCE DATA

Impact 2 V2 Asymmetric UPE Filters

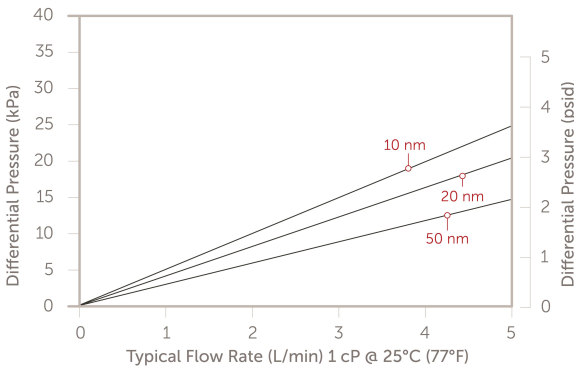


Impact 2-Duo

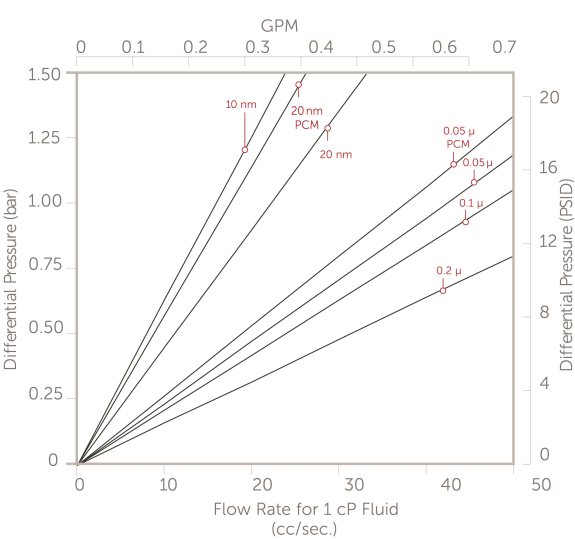


PERFORMANCE DATA

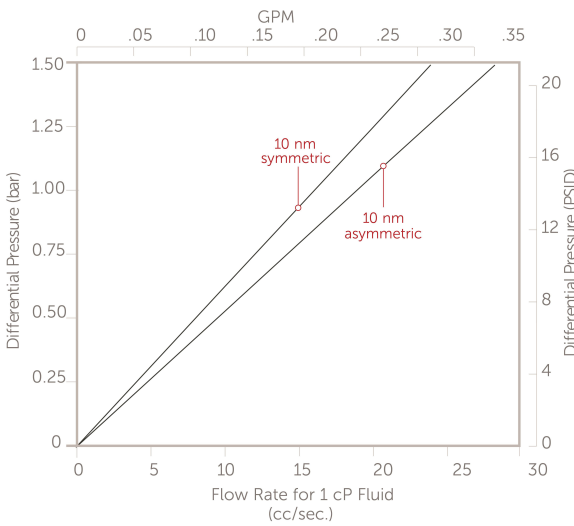
Impact 2 V2 Asymmetric Nylon Filters



Flow Curve for Impact 2 V2 Filters



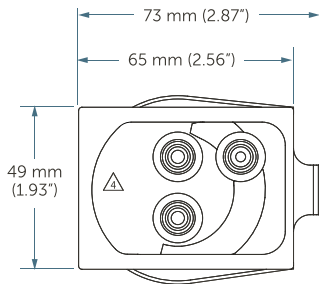
Flow Curve for Impact 2 v2  
10 nm Symmetric and Asymmetric Products



DIMENSIONS

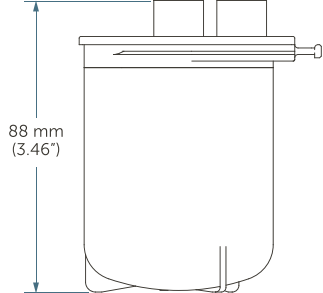
Impact 2 V2 Filter

Top View

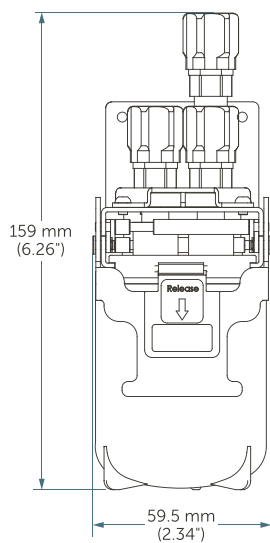


Impact 2 V2 Filter

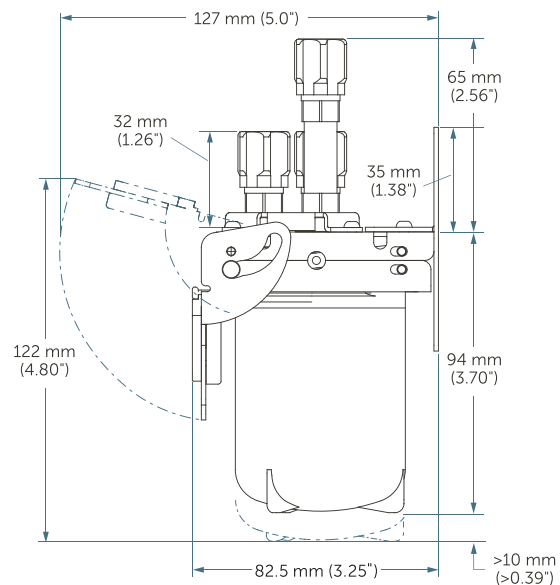
Side View



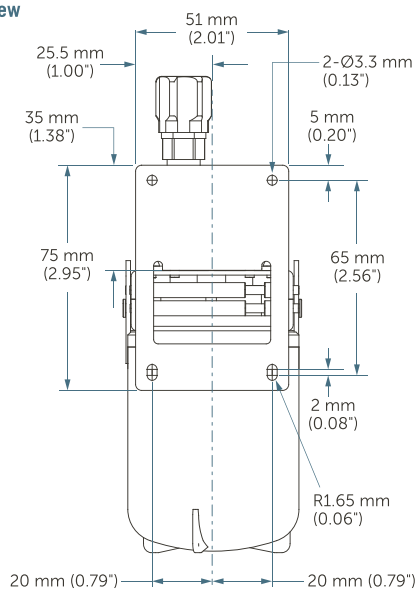
### Front View



### Side View



### Back View



PART NUMBER	RETENTION RATING	MEMBRANE/MEDIA	FORM FACTOR
A206200KSP	0.6 µm	PP	Short
A2AG200K1	0.2 µm	UPE	Short
A2AT20MK1	10 nm	UPE	Short
A2AV200K1	0.1 µm	UPE	Short

## ORDERING INFORMATION

PART NUMBER	RETENTION RATING	MEMBRANE/MEDIA	FORM FACTOR
A2AX20MK1	20 nm	UPE	Short
A2AX2LMK1	20 nm	UPE	Long
A2AZ200K1	0.05 µm	UPE	Short
A2AZ2LMK1	0.05 µm	UPE	Long
A2DT200K1	10 nm	DUO	Short
A2DY200K1	30 nm	DUO	Short
A2HV200K1	0.1 µm	UPE DEV	Short
A2MX20MK1	20 nm	UPE PCM	Short
A2NT200K1	10 nm	Nylon	Short
A2NX200K1	20 nm	Nylon	Short
A2NZ200K1	0.05 µm	Nylon	Short
A2SF20MK1	5 nm	UPE	Short
A2SK20MK1	3 nm	UPE	Short
A2ST20MK1	10 nm	UPE	Short
A2UA200K1	1 µm	UPE	Short
A2UH200K1	0.5 µm	UPE	Short

### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](https://www.entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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