



IMPACT® 2 V2 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 V2 filter quickly connects and seals with the Impact 2 manifold and IntelliGen® 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

| Features | Benefits |
|---|--|
| Design optimized for use with the Impact 2 manifold and IntelliGen dispense systems | 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 10 nm and 20 nm | Tightest membrane technology to meet critical line-width processes |
| New 10 nm pleating technology | Impact 2 V2 10 nm products incorporate more membrane within the same footprint as 0.03 µm and 0.05 µm Impact 2 V2 filters, providing the benefits of ultrafine retention without a flow or pressure drop penalty |

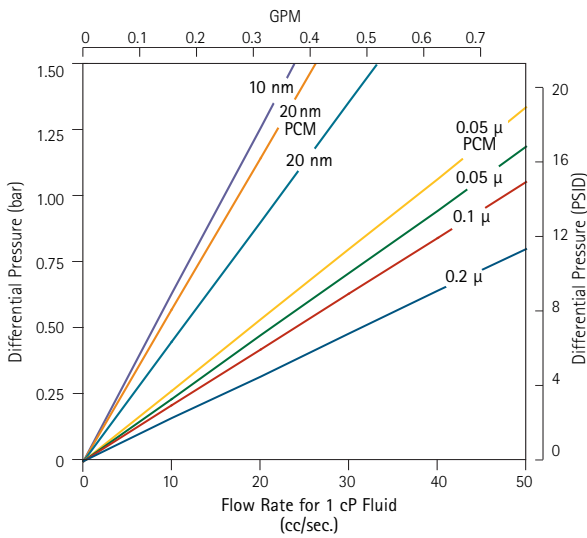
Specifications

| | | |
|-------------------------------|---|---|
| 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: | 10 nm | 1,390 cm ² (1.5 ft ²) |
| | 10 nm asymmetric | 1,300 cm ² (1.4 ft ²) |
| | 20 nm | 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 | |

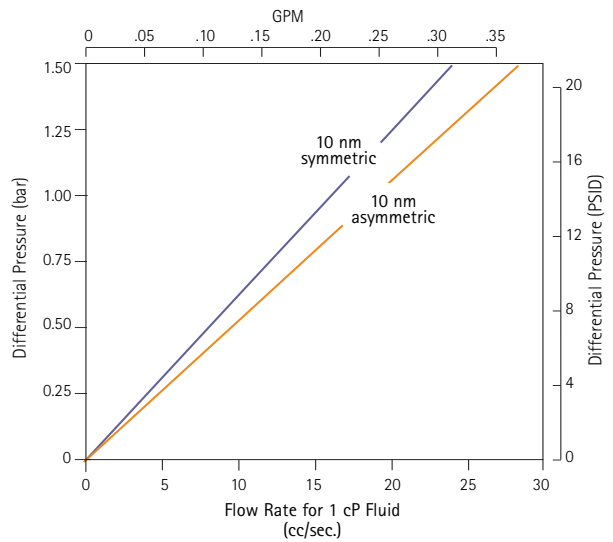
Performance Data

Flow Rate

Flow Curve for Impact 2 V2 Filters

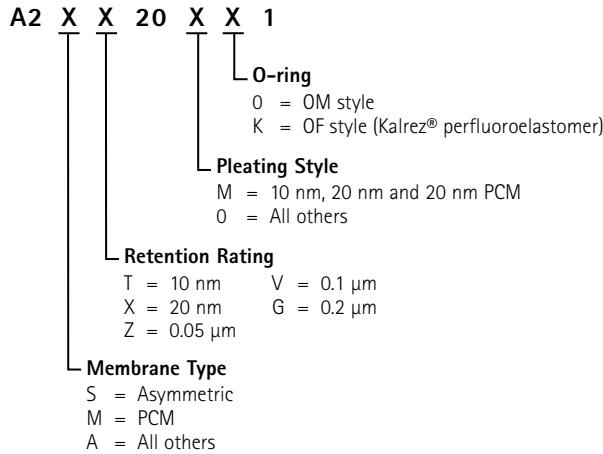


Flow Curve for Impact 2 v2
10 nm Symmetric and Asymmetric Products



Ordering Information

Part Number



Note: Compatible with Impact 2 manifolds.
Not all part number combinations are available. Please contact Entegris Customer Service for more details.

Terms and Conditions of Sale

All purchases are subject to Entegris' "Terms and Conditions of Sale." To view and print this information, visit Entegris' Web site at www.entegris.com and select the Legal Notices link from the footer found on the home page.

For Additional Information

Please call your Regional Customer Service Center today to learn what entegris can do for you. Visit www.entegris.com and select "Regional Customer Service Centers" for the center nearest you.

Entegris®, IntelliGen® and Impact® are registered trademarks of Entegris, Inc.
Pillar® is a registered trademark of Nippon Pillar Packing Co., LTD
Teflon® is a registered trademark of E.I. du Pont de Nemours used under license.
Kalrez® is a registered trademark of DuPont Dow Elastomers.
Flowell™ is a trademark of Flowell Corporation.

ENTEGRIS, INC.

Corporate Headquarters / 3500 Lyman Boulevard / Chaska, Minnesota 55318 USA
Customer Service Tel. 952-556-4181 / Customer Service Fax 952-556-8022
www.entegris.com