

Eximor® SV5 Solvent Filter

Point-of-use filtration for negative tone developers (NTD) and critical photochemical-solvent applications

Eximor® SV5 solvent filter satisfies stringent customer requirements for particle removal performance in sub-20 nm node photochemical-solvent applications. Eximor SV5 is exclusively designed for use on Tokyo Electron Limited (TEL®) Lithius Pro™ series clean tracks. Eximor SV5 is the newest generation of solvent filter in Eximor family.

Leveraging advanced solvent filtration technologies, the unique PTFE-based membrane removes both dissolved and particulate metal ions for reduced on-wafer defectivity and improved process yield. Moreover, the all-Teflon® filter construction enhances product cleanliness and supports broad chemical compatibility for clean, point-of-use operation. Combined with proprietary device cleaning, Eximor SV5 delivers a clean and effective filtration solution for point-of-use solvent applications in leading-edge photolithography.

APPLICATIONS

- Negative tone development (NTD) solvents
- Reducing resist consumption (RRC) solvents



FEATURES & BENEFITS

Next-generation solvent filtration device	<p>Exclusively designed for use on Tokyo Electron Limited (TEL) Lithius Pro series clean tracks</p> <p>Delivers filtration performance for the most advanced sub-20 nm technology nodes</p> <p>Superior defect reduction performance in NTD solvent applications, compared to its predecessor Eximor SV1</p>
Unique PTFE-based membrane	<p>Removes both dissolved and particulate metal ions</p> <p>Reduces on-wafer defectivity</p> <p>Improves process yield</p> <p>Superior defect reduction performance in NTD solvent applications, compared to its predecessor Eximor SV1</p>
All-Teflon filter construction	<p>Enhances product cleanliness and solvent filtration efficiency</p> <p>Supports broad chemical compatibility</p> <p>Enables clean, point-of-use operation</p>

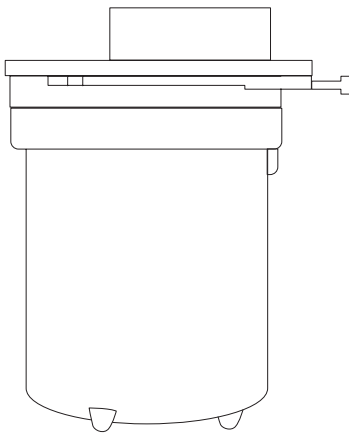
SPECIFICATIONS

Materials	Membrane	PTFE-based
	Support, core, sleeve	PFA
	O-ring	Kalrez®
Maximum operating conditions	Maximum inlet pressure:	0.39 MPa @ 25°C (77°F)
	Maximum forward differential pressure:	0.29 MPa @ 25°C (77°F)
	Maximum reverse pressure:	0.29 MPa @ 25°C (77°F)
	Maximum operating temperature:	40°C (104°F)
Hold-up volume	50 mL	
Compatibility	Eximor SV5 is compatible with most photochemical solvents, such as nBA, EL, PGMEA, PGME, NMP, etc. Please consult Entegris for more information on chemical compatibility	

Note: Eximor SV5 filter uses Eximor SV1 manifold.

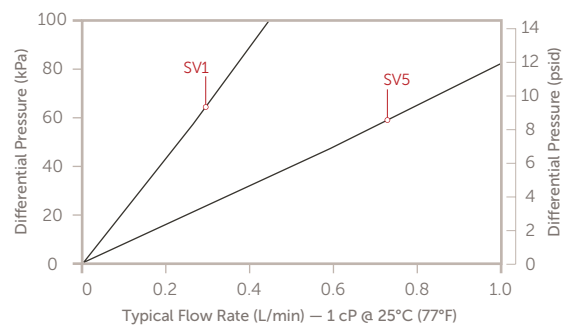
DRAWING

Side View



PERFORMANCE DATA

Eximor SV5 Solvent Filter



Comparison with Eximor SV1.

ORDERING INFORMATION

Part number	Description
EX5TT00K1	Eximor SV5 solvent filter
EX50000K1	Eximor SV5 flushing shell Kalrez

Note: Eximor SV1 manifold can be purchased through Tokyo Electron Ltd.

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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