

LiquiPro™ SH

Superior pleated PTFE membrane filters



LiquiPro™ SH are superior pleated PTFE (Polytetrafluoroethylene) membrane filters with PFA support for chemical inertness across a broad range of microelectronics process and chemical applications.

Features and Benefits

- Ultra Clean PPB Grade. LiquiPro™ SH all PTFE filters are manufactured from the highest purity grade PFA for support hardware, in order to achieve superior total metal extractables <30 PPB per device.
- LiquiPro™ EZ key option available and universally compatible with industry standard 2-222 filter housings.
- Ultra clean manufacturing. Assembled, cleaned, tested in class 1000 and 100 manufacturing centre.
- PFOA-Free PFOA is not used in the PFA resins or in the manufacturing process.
- 100% Successful Cartridge Installation. The cartridge locking feature prevents the cartridge from falling out or being pushed out by back pressure. Vertical installation ensures that O-rings will not roll.

Typical Applications

- Chemical delivery system for the filtration of strong acid and base solutions at room temperature for semiconductor manufacturing.
- Solvent filtration.
- Aggressive chemical processes in the photovoltaic and data storage industries.

Performance Specifications

Pore size rating

0.05, 0.1, 0.2, 0.5, 1.0, 5.0, 10.0µm

Maximum differential pressure:

5.1 bar (74 psid) @ 25°C (77°F)

2.0 bar (29 psid) @ 120°C (248°F)

Compatibility and purity

Filters do not use any binders, surfactants and adhesives for broad usage compatibilities. Only 100% high purity virgin polypropylene is used.

Materials of construction

Filter media: Hydrophobic PTFE membrane

Support: Dupont PFA 440 HP-J

End caps, core, cage: PFA

O-rings: E-FKM

ATT Cartridge Dimension

83mm (3.25") diameter and 10" nominal length.

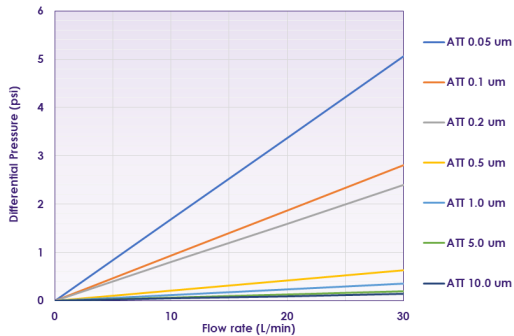
Metallic Cleanliness

<30 µg per device. Ultra-High-Purity. Cleaner and lower than semi industry benchmark filters.

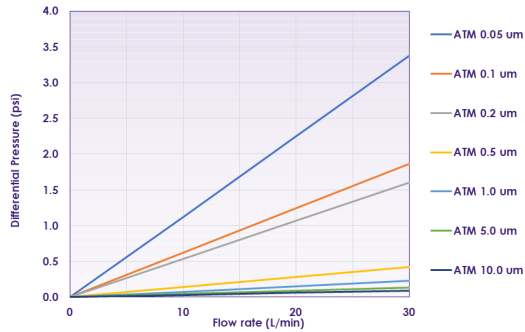
Maximum operating temperature

180°C (356°F) at the above conditions

Flow Rates: LiquiPro™ SH-ATT (0.8m²) series

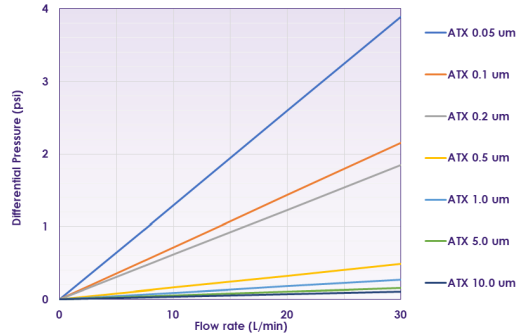


Flow Rates: LiquiPro™ SH-ATM (1.8 m²) series



*Flow rate is at 20°C, and for a 24 cm (10 in) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Flow Rates: LiquiPro™ SH-ATX (1.3m²) series



Type	Filter Area (m ²)	Nominal Length (in)	Diameter (mm)	Length (mm)
ATT	0.35	4	83.0 +/- 0.5	125.0 +/- 2
ATT	0.80	10	83.0 +/- 0.5	248.0 +/- 2
ATX	1.30	10	83.0 +/- 0.5	248.0 +/- 2
ATM	1.80	10	83.0 +/- 0.5	248.0 +/- 2
ATE	2.20	10	83.0 +/- 0.5	248.0 +/- 2

Ordering Information

To form a part number, please choose one option from each column below.

Product Name	Micron Rating	Adaptor Code	Seals	Cleanliness	Length	Key Option	Packing Option
SH : LiquiPro™ SH	005: 0.05 µm	A : 222/flat	T: E-FKM	B: Bump / strip <50bbp	04: 4in	- : N/A	- : Standard Dry
SH-ATT : LiquiPro™ SH 83 mm (0.8) O/D	010: 0.1 µm		K: F-FKM	U: Ultra high purity** <30bbp	10: 10in	K: Ezelock Key compatible to use with alternative cartridge housings	W: Pre-wetted
SH-ATX : LiquiPro™ SH 83 mm (1.3) O/D	020: 0.2 µm			M: Ultra low metal* <10bbp	20: 20in †		
SH-ATM : LiquiPro™ SH 83 mm (1.8) O/D	045: 0.45 µm				30: 30in †		
SH-ATE : LiquiPro™ SH 83 mm (2.2) O/D	100: 1 µm						
	500: 5 µm						
	1000: 10 µm						

†: Available upon request. Request technical support.