porvair filtration group

LiquiPro™ QX

Superior Pleated Non-dewet PTFE Membrane Filters



LiquiPro™ QX filters feature an industry-standard 83 mm pleated format and advanced Non-Dewet PTFE membrane technology, engineered to provide reliable filtration across a wide range of aqueous-based and outgassing chemistries used in semiconductor manufacturing.

Constructed entirely from PFA support materials and components, the LiquiPro™ QX Series delivers exceptional chemical inertness and high levels of cleanliness, making it ideally suited to the demanding requirements of semiconductor chemical filtration processes.

Features and Benefits

- LiquiPro™ QX combines world-class, reliable non-dewetting technology with the convenience of a pre-wet filter, delivering ease of use across a wide range of aqueous-based, outgassing chemistries, including SC1, SC2, SPM, H_2O_2 post-polymer remover solutions and post-CMP cleaning solutions.
- LiquiPro™ QX filters deliver world-class reliability and proven performance in high-volume manufacturing. Featuring a high-quality ePTFE membrane, they provide excellent retention, low pressure drop, high flow rates and extended service life.
- LiquiPro™ QX filters are designed for compatibility with EzeLock® and Chemlock® key systems.
- Fast rinse-up times, with filters pre-flushed using ultrapure DI water (18.2 MΩ·cm, TOC <10 ppb) for enhanced cleanliness and ease of use.

Typical Applications

- Filtration solutions for semiconductor wet etch, cleaning and stripping processes.
- Filtration solutions for bulk chemical delivery system applications.
- Solvent filtration.
- Wide range of chemical processes.
- Filtration for aggressive acid and base chemical processes.

Performance Specifications

Pore size rating:
10nm, 15nm, 20nm, 30nm, 0.05µm, 0.1µm, 0.2µm

Maximum differential pressure:
5.0 bard (72.5 psid) @ 25°C (77°F)
2.0 bard (29.0 psid) @ 120°C (248°F)

Maximum operating temperature:
180°C (356°F) at the above conditions

Materials of construction:
Media: Non-dewet PTFE, Prewet
Support: PFA end caps, core, cage
O-rings: FEP Encapsulated FKM
Cartridge Diameter: 83mm (3.25")

Product Specifications

Total Metals (13 elements, ICP-MS)	UHP < 25 ppb / device Ultra low metal < 10 ppb / device
Particle Shedding cleanliness	< 5 particles / 1ml ≥ 0.15um @10LPM UPW flow
TOC Recovery (per 10" equivalent)	< 5ppb of feed DI water after 120L @ 5LPM
Resistivity recovery (per 10" equivalent)	< 0.5MΩ of feed DI water after 120L @ 5LPM

Element Dimensions

	QFX SERIES N20, N30, 005, 010, 020				
	FLOW AREA (m^2)				
Diameter (Inches)	**X**	**M**	**NE**	**E**	**F**
4	0.5				
10	1.3	1.8		2.2	
20	2.6	3.6		4.4	
	QFX Series N10, N15				
10			2.0		2.4
20			4.0		4.8

Ordering information

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

Product Code: 1 2 3 4 5 6 7 8 9 10 **QX-XX005ATB04**

Product code:	Micron Rating		Flow Perfromance		Flow Area	Adaptor Code		Seals		Cleanliness		Length		Key Option		Packaging Option	
QFX	N10	10nm	-	STD	X	A	222/ flat	K	FFKM	B	Basic Purity TOC < 50ppb	04	4"	-	n/a	-	Standard Dry
	N15	15nm	E	High	M			T	E-FKM	UL	Ultra Low Metal(< 10ppb)	10	10"	K	EZ Key compatible to use with ChemLock®/ Ezelock® cartridge housing	W	Pre-wetted
	N20	20nm			NE			EB	E-ETP	U	Ultra High Purity(< 25ppb)	20	20"				
	N30	30nm			E												
	005	0.05µm			F												
	010	0.1µm															
	020	0.2µm															

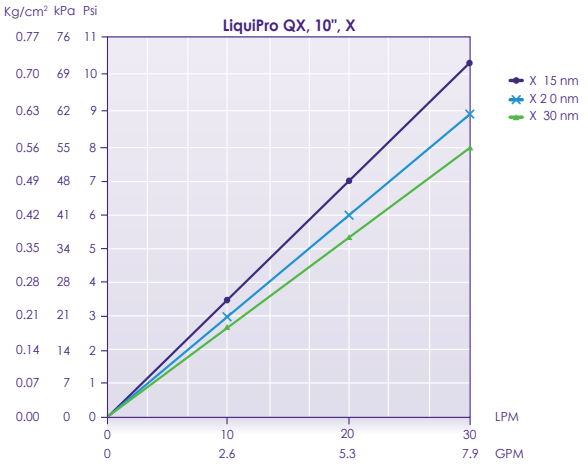
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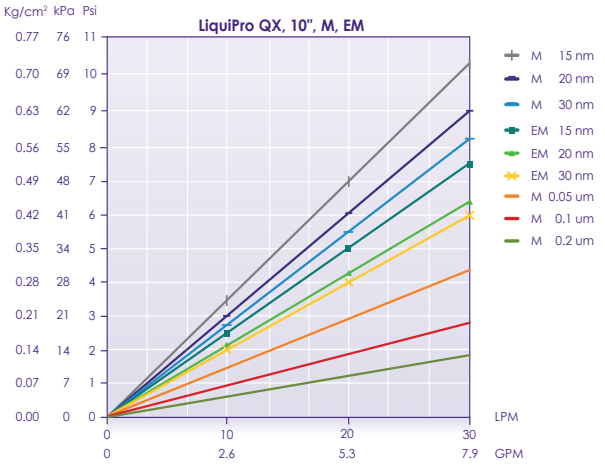
Contact Information:

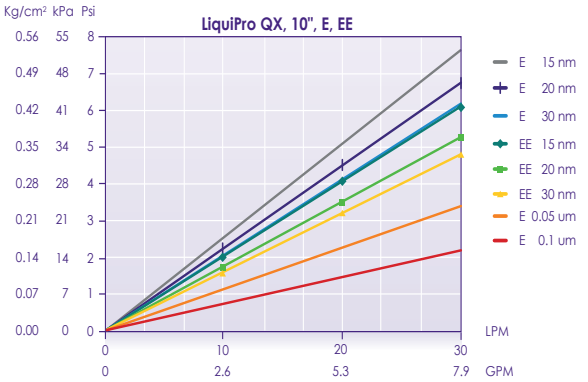
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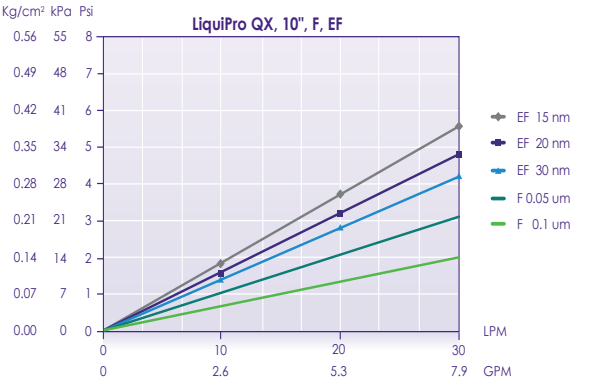
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LiquiPro QX, 10", X
Kg/cm² kPa Psi
0.77 76 11
0.70 69 10
0.63 62 9
0.56 55 8
0.49 48 7
0.42 41 6
0.35 34 5
0.28 28 4
0.21 21 3
0.14 14 2
0.07 7 1
0.00 0 0
0 10 20 30 LPM
0 2.6 5.3 7.9 GPM
X 15 nm
X 2 0 nm
X 30 nm


LiquiPro QX, 10", M, EM
Kg/cm² kPa Psi
0.77 76 11
0.70 69 10
0.63 62 9
0.56 55 8
0.49 48 7
0.42 41 6
0.35 34 5
0.28 28 4
0.21 21 3
0.14 14 2
0.07 7 1
0.00 0 0
0 10 20 30 LPM
0 2.6 5.3 7.9 GPM
M 15 nm
M 20 nm
M 30 nm
EM 15 nm
EM 20 nm
EM 30 nm
M 0.05 um
M 0.1 um
M 0.2 um


LiquiPro QX, 10", E, EE
Kg/cm² kPa Psi
0.56 55 8
0.49 48 7
0.42 41 6
0.35 34 5
0.28 28 4
0.21 21 3
0.14 14 2
0.07 7 1
0.00 0 0
0 10 20 30 LPM
0 2.6 5.3 7.9 GPM
E 15 nm
E 20 nm
E 30 nm
EE 15 nm
EE 20 nm
EE 30 nm
E 0.05 um
E 0.1 um


LiquiPro QX, 10", F, EF
Kg/cm² kPa Psi
0.56 55 8
0.49 48 7
0.42 41 6
0.35 34 5
0.28 28 4
0.21 21 3
0.14 14 2
0.07 7 1
0.00 0 0
0 10 20 30 LPM
0 2.6 5.3 7.9 GPM
EF 15 nm
EF 20 nm
EF 30 nm
F 0.05 um
F 0.1 um