Graver Technologies

FILTRATION | SEPARATION | PURIFICATION

QXL™ Series Filter Cartridges

Absolute Rated Filtration for Inks, Slurries and Coatings

With its extra-loft, extra-life depth filter configuration, the QXL is designed for the filtration of industrial solutions containing agglomerated particles and gels or with high viscosity. Consistent absolute retention performance is achieved throughout the pleated, layered microfiber matrix. The state-of-the-art, optimized structure provides significantly higher flow rates and throughputs than cylindrical melt blown filters.

Product Specifications

Media: Polypropylene

Core, Cage, End Caps: Polypropylene

Gaskets/O-Rings: Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only), Teflon (gaskets), Viton

Micron rating:
0.45, 0.5, 1, 3, 5, 10, 20, 40 µm

Dimensions

Nominal lengths:
5", 9.75", 10", 19.5", 20", 29.25", 30", 39", 40"
(12.7, 24.8, 25.4, 49.5, 50.8, 74.3, 76.2, 99.1, 101.6 cm)

Outside diameter: 2.7" (6.86 cm)

Inside diameter: 1.0" (2.54 cm)

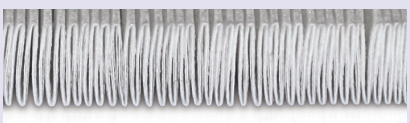
Operating Parameters

Maximum operating temperature:
176°F (80°C)

Maximum differential pressure:
75 psid @ 70°F (5.2 bar @ 21°C)
30 psid @ 176°F (2.0 bar @ 80°C)

Maximum reverse pressure:
40 psid @ 70°F (2.8 bar @ 21°C)

Recommended change-out pressure:
35 psid (2.4 bar)



Conventional pleated polypropylene filter media such as QMA, PMA and PMC

QXL filter media

FEATURES & BENEFITS

- Hybrid pleated depth construction combines graded pore structure with high surface area.
- Constructed entirely of polypropylene — Compatible with a broad range of solutions and chemicals
- Optimized pleat configuration — Provides the ideal combination of retention, flow rate and throughput
- Excellent gel and agglomerated particle retention reduces defects
- Available in common end cap configurations — Retrofits easily into most filter housings

CERTIFICATIONS

- USP Class VI: Meets USP Class VI Biological Test for Plastics.
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.
- European Directive for Direct Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.

TYPICAL APPLICATIONS

- CMP P-O-U and Bulk Slurries
- Adhesives
- Paints
- Beverages
- Coatings
- Inks

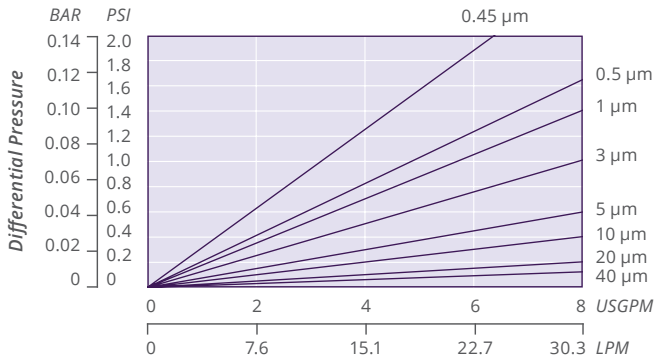
QXL NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring		Options	
QXL Series	0.45[1]	5	–5	–29.25[2]	P	Double Open End	B	Buna-N	–I	End Cap Insert
	0.5	10	–9.75[2]	–30	P2	226/Flat Single Open End	E	EPDM	–R	Factory Pre-Rinse
	1	20	–10	–39[2]	P3	222/Flat Single Open End	S	Silicone		
	3	40	–19.5[2]	–40	P7	226/Fin Single Open End	T	Teflon encap. Viton (O-Rings only)[3]		
			–20		P8	222/Fin Single Open End	T	Teflon Gasket		
					P28	222 w/3 tabs/Fin Single Open End	V	Viton		
					AM	Single Open End, Internal O-Ring				
Example: QXL 5–10P8S–I										
QXL	5		–10		P8		S		–I	

[1]Special CMP slurry formulation [2]Available only for DOE (P) configuration [3]Not available in AM style

QXL FLOW RATE

Typical Flow Rate Clean Water at Ambient Temperature
(per 10" cartridge)



For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise

REMOVAL EFFICIENCY

Beta Ratio Efficiency	Beta 5000 99.98%	Beta 100 99%	Beta 50 98%
0.45 µm	0.45	0.3	0.2
0.5 µm	0.65	0.45	0.3
1 µm	1.5	0.8	0.6
3 µm	3.0	2.0	1.0
5 µm	5.0	4.0	3.0
10 µm	10.0	8.0	7.0
20 µm	20.0	19.0	17.0
40 µm	40.0	35.0	25.0

PERFORMANCE SPECIFICATIONS

Sterilization

Cartridges may be autoclaved for 30 minutes at 250°F (121°C) under no end load conditions. Cartridges fitted with steam insert may be steamed for at least 10 30-minute cycles @ 275°F (135°C) not to exceed 3 psid (0.21 bar).

FOR MORE INFORMATION **GTX-311 9-24**

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DISTRIBUTED BY

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