



QXL™ Series Filter Cartridges

*Absolute Rated Filtration for Inks,
Slurries and Coatings*

Product Specifications

Media: Polypropylene

Core, Cage, End Caps: Polypropylene

Gaskets/O-Rings:

Buna-N, EPDM, Silicone, Teflon

Encapsulated Viton (O-Rings only), Viton

Micron rating:

0.2, 0.45, 0.5, 1, 3, 5, 10, 20, 40 µm

Dimensions

Nominal lengths:

5" 9.75" 10" 20" 30" 40"

12.7 24.8 25.4 50.8 76.2 101.6 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)

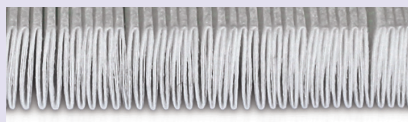
30 psid @ 176°F (2.0 bar @ 80°C)

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

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.

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
- Beverages
- Adhesives
- Coatings
- Paints
- Inks

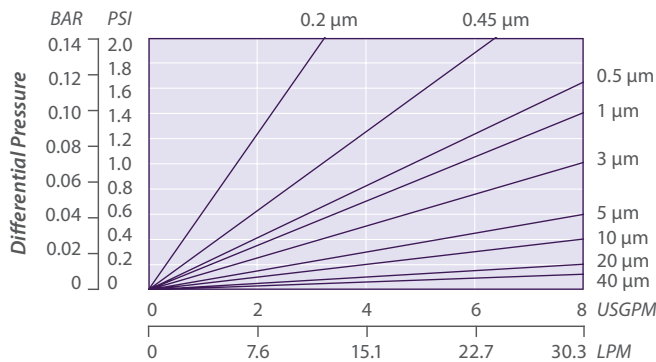
QXL NOMENCLATURE INFORMATION

| Filter Type | Retention Rating (microns) | | Nominal Length (inches) | | End Configuration | Gasket or O-Ring | | Options | | |
|-------------------------------|----------------------------|----|-------------------------|-----|----------------------------------|--------------------------|---|---------|------------------------------------|----------------------|
| QXL Series | 0.2 | 5 | -5 | -20 | P | Double Open End | | B | Buna-N | -I End Cap Insert |
| | 0.45 ¹ | 10 | -9.75 ³ | -30 | P2 | 226/Flat Single Open End | | E | EPDM | |
| | 0.5 ² | 20 | -10 | -40 | P3 | 222/Flat Single Open End | | S | Silicone | -R Factory Pre-Rinse |
| | 1 | 40 | | | P7 | 226/Fin Single Open End | | T | Teflon encap. Viton (O-Rings only) | |
| | 3 | | | | P8 | 222/Fin Single Open End | | V | Viton | |
| | | | | AM | Single Open End, Internal O-Ring | | | | | |
| Example: QXL 5-10P8S-I | | | | | | | | | | |
| QXL | 5 | | -10 | | P8 | | S | | | -I |

¹Special CMP slurry formulation ²Special ink formulation ³Available only for DOE (P) configuration

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% |
|-----------------------|---------------------|-----------------|----------------|
| 0.2 µm | 0.2 | 0.1 | 0.07 |
| 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

Customer Service/Technical Support: 1-888-353-0303
 Europe (UK): +44-1424-777791 China: +86-21-5238-6576
 Asia: +65-9635-7690

GTX-311 6-18



All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believe to be reliable. However, It is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Graver Technologies as to the effects of such use or the results to be obtained. Graver Technologies assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. QXL is a trademark of Graver Technologies, LLC.

DISTRIBUTED BY



Graver Technologies | 200 Lake Drive, Glasgow, DE 19702 | 302-731-1700 | 800-249-1990
 Fax: 1-302-369-0938 | info@gravertech.com | www.gravertech.com

A member of The Marmon Group—A Berkshire Hathaway Company