



**Poly-Fine® XLD Series
Filter Cartridges**

Absolute Rated, Extended Life Depth Filters

- Proprietary Gel Guard Filter Media
- Innovative Merger of Depth and Pleated Technologies
- High Surface Area for Long Service Life
- Micro Denier Melt Blown Fibers for High Efficiency Filtration
- High Flow Rates with Low Pressure Drops
- All Polypropylene Construction
- Absolute Rated at >99.9% Efficiency With Retention Ratings from 1.5 to 90 µm
- Highly Consistent, Reproducible Performance

Performance Specifications

Filter Grades (>99.9% Retention Rating by ASTM F-795 Test):

1.5, 3, 4.5, 10, 20, 30, 40, 70, 90 µm

Maximum Differential Pressure:

70 psid (4.8 bard) @ 120°F (49°C)

40 psid (2.8 bard) @ 150°F (65°C)

Recommended Change Out Differential Pressure¹:

35 psid (2.4 bard)

FDA Listed Materials:

Manufactured from materials, which are FDA listed for food contact applications in Title 21 of the U.S. **Code of Federal Regulations.**

Toxicity:

All components meet the specifications for biological safety as per the **USP** for Class VI-121°C plastics (gaskets/O-rings excluded).

Cartridge Rinse-Up:

Rinse-up to 18 Megohm-cm with a minimum of throughput.

Purity:

Cartridges are free of surfactants, resins, binders, and adhesives.

Sterilization:

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 180°F (82°C) for 1 hour.

Product Specifications

Materials of Construction:

Filter Media: Polypropylene
 Hardware: Polypropylene
 Cage/Netting: Polypropylene
 Support Material: Polypropylene
 Sealing: Thermal Bond



Gaskets/O-rings: Silicone Elastomer, Buna N, EPDM, Viton² A, Expanded PTFE, FEP Encapsulated Viton A, FEP Encapsulated Silicone

Dimensions (nominal):

Outside Diameter: 2 3/8" (6.6 cm)

Lengths: 4" (10.2 cm), 9 3/4" (24.8 cm), 10" (25.4 cm), 19 1/2" (49.5 cm), 20" (50.8 cm), 29 1/4" (74.3 cm), 30" (76.2 cm), 39" (99.1 cm), 40" (102 cm)

Surface Area: Up to 2.5 ft² (0.23 m²) of effective filtration area per 10" (25.4 cm) equivalent

¹ - Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

² - Registered trademarks of DuPont Dow.

Liquid Retention Ratings (µm) (by ASTM F-795 Test)

Cartridge Designation	90% Efficiency	>99.9% Efficiency
XLD 1.5	0.7	1.5
XLD 3	1.0	3.0
XLD 4.5	3.5	4.5
XLD 10	5	10
XLD 20	15	20
XLD 30	18	30
XLD 40	20	40
XLD 70	30	70
XLD 90	45	90

Part Numbers/Ordering Information

XLD ■ - ● U ◆ - ▼ - ■ (e.g., XLD 4.5-20UN-M8-NET)

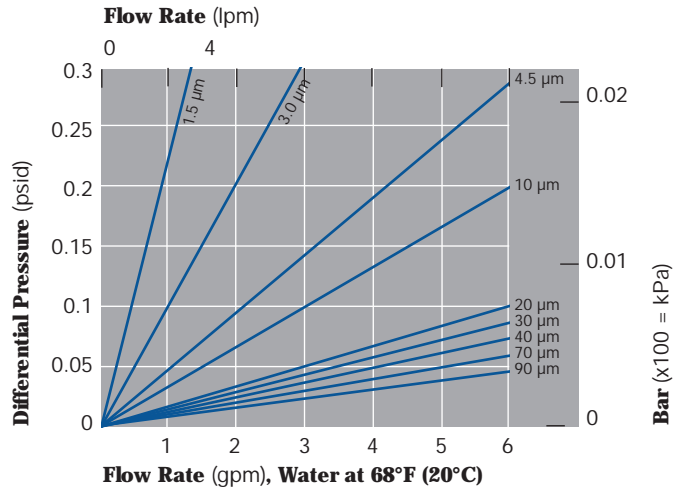
Code	Filter Grades
1.5	1.5 µm
3	3 µm
4.5	4.5 µm
10	10 µm
20	20 µm
40	40 µm
70	70 µm
90	90 µm

Code	Cartridge Lengths (nominal)
4	4"
9.75	9.75"
10	10"
19.5	19.5"
20	20"
29.25	29.25"
30	30"
39	39"
40	40"

Code	Gasket/O-ring Materials
S	Silicone (Std. O-rings)
N	Buna N (Std. gaskets)
V	Viton A
E	EPDM
T	Expanded PTFE (gaskets)
F	FEP Encapsulated Viton A (O-rings)
T	FEP Encapsulated Silicone (O-rings)
X	No O-ring/gaskets required (M2 style only)

³ - For details, contact Pall Corporation.

Typical Flow vs. Differential Pressure for Application Sizing



Flow rate is per 10" (25.4 cm) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Code	End Configurations
Blank	DOE industrial
1X	DOE industrial, 1" (2.54 cm) extended core
M2	SOE flat closed end, fits housings with 020 O-ring post
M3	SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0) ³
M3H	SOE large diameter closed end, external 222 O-rings
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) ³
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) ³
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) ³
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) ³
M10	DOE, internal O-rings (fits other manufacturers' housings) ³
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style) ³
M18	SOE flat closed end, external 222 O-ring
M20	SOE, internal O-ring (same as M10), closed end with deep recess

Code	Outer Cage/Netting (polypropylene)
Blank	Cage
NET	Netting

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