

## Poly-Fine® XLD Series Filter Cartridges

### 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
- Available in retention ratings from 1.5 to 90 µm
- Highly consistent, reproducible performance

### Performance Specifications

#### Filter grades

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

#### Recommended change-out differential pressure<sup>1</sup>

2.4 bard (35 psid)

#### Maximum differential pressure

4.8 bard (70 psid) @ 20°C (68°F)

2.8 bard (40 psid) @ 65°C (150°F)

#### Food and water contact use

Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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

<sup>1</sup> Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.



### Product Specifications

#### Materials of construction

Filter media:	Polypropylene
Hardware:	Polypropylene
Cage/netting:	Polypropylene
Support material:	Polypropylene
Sealing:	Thermal bond
Gaskets/O-rings:	Silicone elastomer, nitrile, EPDM, fluorocarbon elastomer, expanded PTFE, FEP encapsulated fluorocarbon elastomer, FEP encapsulated silicone

#### Dimensions (nominal)

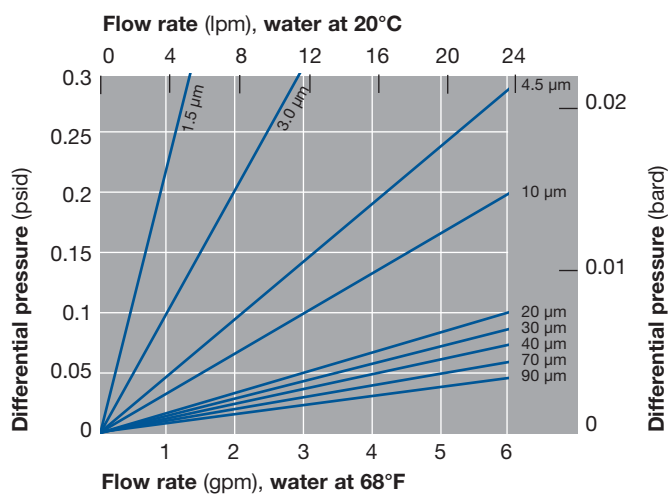
Outside diameter:	6.6 cm (2.6 in)
Lengths:	10.2 cm (4 in), 24.8 cm (9.75 in), 25.4 cm (10 in), 49.5 cm (19.5 in), 50.8 cm (20 in), 74.3 cm (29.25 in), 76.2 cm (30 in), 99.1 cm (39 in), 102 cm (40 in)

## Liquid Retention Ratings ( $\mu\text{m}$ )<sup>2</sup>

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

<sup>2</sup> By ASTM F-795 test

## Typical Flow vs. Differential Pressure for Application Sizing



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

Unit conversion: 1 bar = 100 kPa

## Ordering Information

Pall Part Number = XLD 1 - 2 U 3 - 4 - 5

**Table 1**

Code	Filter grades (µm)
1.5	1.5
3	3
4.5	4.5
10	10
20	20
40	40
70	70
90	90

**Table 2**

Code	Cartridge lengths (cm/in) nominal
4	10.2/4
9.75	24.8/9.75
10	25.4/10
19.5	49.5/19.5
20	50.8/20
29.25	74.3/29.25
30	76.2/30
39	99.1/39
40	101.6/40

**Table 3**

Code	Gasket/O-ring materials
S	Silicone (standard O-rings)
N	Nitrile (standard gaskets)
V	Fluorocarbon elastomer
E	EPDM
T	Expanded PTFE (gaskets)
F	FEP encapsulated fluorocarbon elastomer (O-rings)
T	FEP encapsulated silicone (O-rings)
X	No O-ring/gaskets required (M2 style only)

<sup>3</sup> For details, contact Pall Corporation.

**Table 4**

Code	End configurations
Blank	DOE industrial
1X	DOE industrial, 2.54 cm (1 in) 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) <sup>3</sup>
M3H	SOE large diameter closed end, external 222 O-rings
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) <sup>3</sup>
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) <sup>3</sup>
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) <sup>3</sup>
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) <sup>3</sup>
M10	DOE, internal O-rings (fits other manufacturers' housings) <sup>3</sup>
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style) <sup>3</sup>
M18	SOE flat closed end, external 222 O-ring
M20	SOE, internal O-ring (same as M10), closed end with deep recess

**Table 5**

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



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Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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