



Poly-Fine® II Series Filter Cartridges

Prefilter for Final Membrane Applications

- Proprietary filter media produced by Pall for highly consistent performance
- High contaminant-holding capacity
- Wide chemical compatibility
- Rigid polypropylene outer cage protects filter
- All polypropylene one piece construction (except 0.2 micron)
- Asymmetric polysulfone media used in 0.2 µm grade
- Fast rinse-up to 18 Megohm-cm

Performance Specifications

Filter grades

0.2, 0.25, 0.45, 0.8, 2, 3, 5, 10, 30, 50, 100 µm

Recommended change-out differential pressure¹

2.4 bard (35 psid)

Maximum forward 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 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.



Product Specifications

Materials of construction

Filter media:

PFT 0.2: Highly asymmetric polysulfone

All other grades: Polypropylene

Hardware: Polypropylene

Sealing: Thermal bond

Support material: Polypropylene

Gaskets/O-rings: Silicone elastomer, nitrile, EPDM, fluorocarbon elastomer, white nitrile, white silicone, expanded PTFE, FEP encapsulated silicone, high purity fluorocarbon elastomer, FEP encapsulated fluorocarbon elastomer, Kalrez², white neoprene

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)

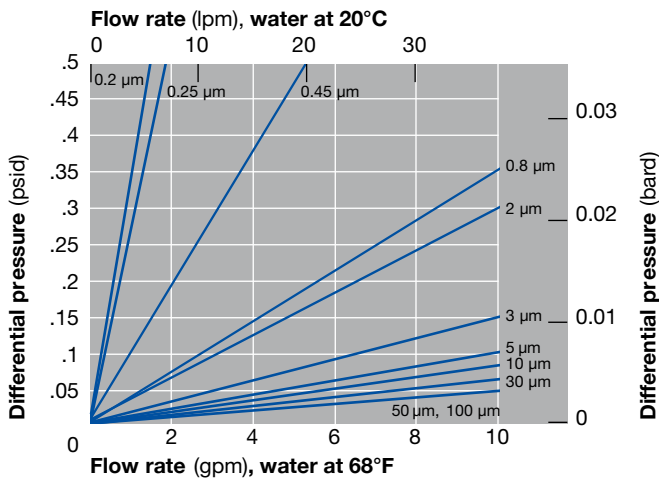
¹ Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

² Registered trademark of DuPont Dow.

Particle Retention (µm)

| Cartridge Designation | Liquid Service (by ASTM F-795 Test) | | Gas Service |
|-----------------------|--|-------------------|--------------------------------|
| | 90% Efficiency | >99.9% Efficiency | Removal Efficiency By DOP Test |
| PFT 0.2 | 0.2 | 0.5 | 99.99% |
| PFT 0.25 | 0.25 | 1.0 | 99.97% |
| PFT 0.45 | 0.45 | 1.2 | 99.93% |
| PFT 0.8 | 0.8 | 2.5 | 99.90% |
| PFT 2.0 | 2 | 5 | _____ |
| PFT 3.0 | 3 | 7 | _____ |
| PFT 5.0 | 5 | 12 | _____ |
| PFT 10.0 | 10 | 15 | _____ |
| PFT 30.0 | 30 | 40 | _____ |
| PFT 50.0 | 50 | 65 | _____ |
| PFT 100.0 | 85 | 100 | _____ |

Typical Flow vs. Differential Pressure for Application



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 = PFT 1 - 2 U 3 - 4 5 6 - 7

Table 1

| Code | Filter grades (µm) |
|------|--------------------|
| 0.2 | 0.2 |
| 0.25 | 0.25 |
| 0.45 | 0.45 |
| 0.8 | 0.8 |
| 2 | 2 |
| 3 | 3 |
| 5 | 5 |
| 10 | 10 |
| 30 | 30 |
| 50 | 50 |
| 100 | 100 |

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) |
| M | White silicone |
| W | White nitrile (gaskets) |
| V | Fluorocarbon elastomer |
| E | EPDM |
| T | FEP encapsulated silicone (O-rings) |
| T | Expanded PTFE (gaskets) |
| X | No O-ring required (M2 style only) |
| F | FEP encapsulated fluorocarbon elastomer (O-rings) |
| K | Kalrez (222 O-rings) |
| Q | High purity fluorocarbon elastomer (222 O-rings) |
| Z | White neoprene (gaskets) |

³ 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) ³ |
| M3H | SOE large diameter closed end, external 222 O-rings |
| M4 | SOE fin end, external 222 O-rings with locking tabs |
| 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 |
| M22 | SOE fin end, external 225 O-ring |

Table 5

| Code | Bubble test option |
|-------|--------------------|
| Blank | No bubble test |
| B | 100% bubble test |

Table 6

| Code | Pre-rinse option |
|-------|------------------|
| Blank | No pre-rinse |
| 414 | 100% pre-rinse |

Table 7

| Code | Packaging |
|-------|--------------------|
| Blank | Standard packaging |
| -BLK | Bulk packaging |



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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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