

# Depth Filters for Aggressive and High Temperature Fluids

- All PTFE construction for compatibility with a wide range of process fluids
- Available in retention ratings of 0.5, 1, 3, 10, or 25 microns (µm)
- Fits into most standard housings
- May be used as a final filter in many applications, or to provide superior protection for membrane final filters
- PVDF and PFA housings are available for use in all fluoropolymer filtration systems
- M3¹ or DOE end configurations are available as standard products

# **Performance Specifications**

## Filter grades

 $0.5,\,1,\,3,\,10,\,25~\mu m$ 

#### Maximum operating temperature

PTFE is compatible with nearly all chemicals up to 185°C (365°F). Primary exceptions are fluorine, chlorine, and oxygen at temperatures in excess of 100°C (212°F).

# **Product Specifications**

### Materials of construction

Filter media: PTFE (fluoropolymer)

Center core: PTFE

222 O-ring: FEP encapsulated

fluorocarbon elastomer (standard)

#### Dimensions (nominal)

Outside diameter: 6.35 cm (2.5 in), DOE only

7.14 cm (2.81 in), M3 only

Lengths: 25.4 cm (10 in), 50.8 cm (20 in),

76.2 cm (30 in)

#### Filtration. Separation. Solution.sm

# **DFT Classic® Fluoropolymer Series Filter Cartridges**



# **Applications**

Acid etch systems - including Piranha Etch Solvent Strip applications

Most aggressive and/or high temperature acids or solvents

## **Additional High Temperature Materials**

Pall can also supply DFT Classic filter cartridges in polyphenylene sulfide (PPS) for high temperature and aggressive applications. Additional PTFE products are also available, including the Fluoryte™ Series filter cartridge, an all-fluoropolymer membrane cartridge. Contact your local Pall representative or distributor for specific information on these products.

# **Recirculating Applications**

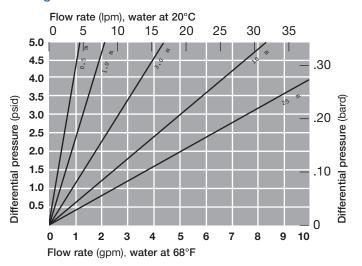
Retention ratings, by convention, are for single pass applications. Many applications involve recirculating systems, where the filter media has several opportunities to capture contaminant. For example, in a 15.1 liter (4 gallon) system circulating at 7.6 lpm (2 gpm), the fluid passes through the filter cartridge five times in ten minutes. Thus, the effective retention of a filter cartridge is much finer. Specifically, a cartridge rated at 0.5 µm (nominal) on a single pass is often an effective 0.2 µm (nominal) filter on a recirculating basis.

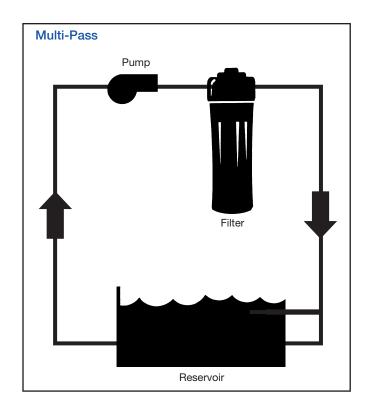
Modified M3 end cap configuration features single 222 O-ring; M3 equivalent to Pall Code 3.

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

Single Pass	Multi-Pass
0.5	0.2
1	0.5
3	1
10	3
25	10

# Typical Flow vs. Differential Pressure for Application Sizing





Unit conversion: 1 bar = 100 kPa

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

# **Ordering Information**

Pall Part Number = T 1 2 3 Y - 4

Table 1

Code	Filter grades (µm)
0.5	0.5
001	1
003	3
010	10
025	25

Table 2

Code	Diameter (cm/in) nominal
А	6.35/2.5
BB	7.14/2.81

#### Table 3

Code	Cartridge lengths (cm/in) nominal
10	25.4/10
W20	50.8/20
W30	76.2/30

Table 4

Code	End configurations
Blank	DOE industrial
МЗ	SOE flat closed end, external 222 O-ring (retrofits other manufacturers' Code 0) <sup>2</sup> ("BB" diameter) – only

<sup>2</sup> For details, contact Pall Corporation.



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