

## DFT Classic® Fluoropolymer Series Filter Cartridges

### 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 ( $\mu\text{m}$ )
- 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
- M3<sup>1</sup> or DOE end configurations are available as standard products

### Performance Specifications

#### Filter grades

0.5, 1, 3, 10, 25  $\mu\text{m}$

#### Maximum operating temperature

PTFE is broadly compatible with many chemicals up to 185°C (365°F)<sup>2</sup>

### Product Specifications

#### Materials of construction

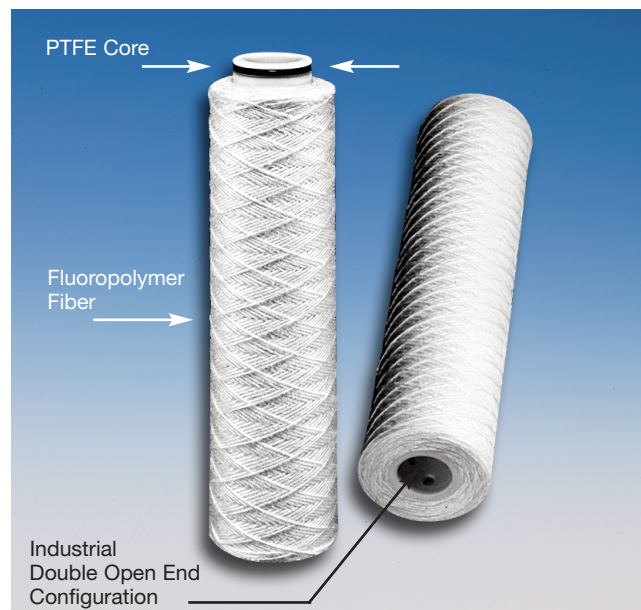
Filter media:	PTFE (fluoropolymer)
Center core:	PTFE
222 O-ring:	FEP encapsulated fluorocarbon elastomer (standard)

#### 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)

<sup>1</sup> Modified M3 end cap configuration features single 222 O-ring; M3 equivalent to Pall Code 3.

<sup>2</sup> Because so many factors (e.g. elevated temperatures) can affect the chemical resistance of a given product, you should pre-test under your own operating conditions observing applicable safety practices such as those given in the Material Safety Data Sheet for each chemical. Pall Corporation can provide specific compatibility guidance, testing and data upon request.



### 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.

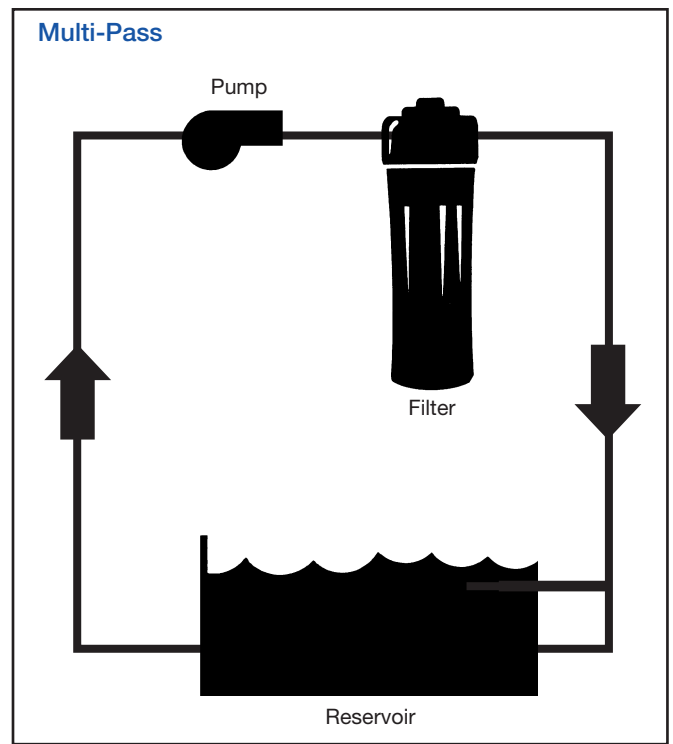
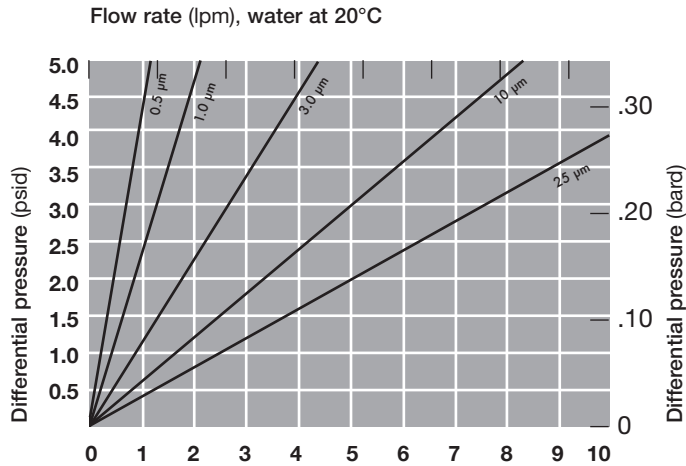
### Recirculating Applications

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  $\mu\text{m}$  (nominal) on a single pass is often an effective 0.2  $\mu\text{m}$  (nominal) filter on a recirculating basis.

## Liquid Retention Ratings ( $\mu\text{m}$ ) (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 ( $\mu\text{m}$ )
0.5	0.5
001	1
003	3
010	10
025	25

Table 2

Code	Diameter (cm/in) nominal
A	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
M3	SOE flat closed end, external 222 O-ring (retrofits other manufacturers' Code 0) <sup>3</sup> ("BB" diameter) – only

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



Pall Corporation

25 Harbor Park Drive  
Port Washington, NY 11050  
+1 516 484 3600 telephone  
+1 800 289 7255 toll free US

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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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