

# LIGHT DUTY MELT-BLOWN CARTRIDGE

## **FCP II series**



*Feature-Tec's FCP II polypropylene melt-blown filter cartridges feature a four-layer construction, resulting in an asymmetric structure. This special design provides a high dirt holding capacity, longer life-time and lower initial differential pressure.*

### **Applications**

- E-coats
- Developers
- Pre-filtration recycled water
- Coolants
- Solutions with lower viscosity
- Electroplating solutions
- Water treatment
- Edible oils and many more

### **Features and benefits**

- Excellent chemical compatibility
- No binders or additives
- Made of 100% high purity polypropylene melt-blown fibers
- Special four-layer structure provides low differential pressure and excellent dirt holding capacity

- Available in a wide variety of adapter/end cap configurations
- According to FDA requirements title 21 (CFR 177.1520)

### **Filter specifications**

#### **Material**

Polypropylene melt-blown

#### **Inner core**

Polypropylene

#### **O-rings / Gaskets**

Buna N, Silicone, EPDM, Viton

#### **Retention ratings**

0.5, 1, 5, 10, 25, 50, 75, 100 µm

### **Dimensions / Parameters**

#### **Nominal lengths**

10", 20", 30", 40"  
(254, 508, 762, 1016 mm)

#### **Outside diameter**

2,48" (63 mm)

#### **Inside diameter**

1.1" (28 mm)

#### **Maximum operating temperature**

60 °C (140 °F)

#### **Max. differential pressures**

1.77 bar @ 60 °C (25.6 psid @ 140 °F)  
3.13 bar @ 21 °C (45.5 psid @ 70 °F)

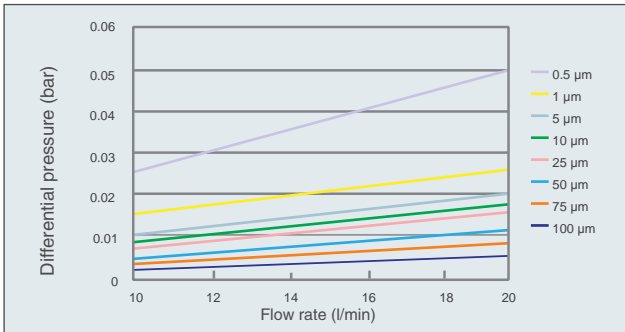
#### **Recommended change-out**

#### **pressure drop for disposal**

2.1 bar @ 21 °C (30.5 psid @ 70 °F)  
1 bar @ 60 °C (14.5 psid @ 140 °F)

■ FCP II Filter Cartridge Range

**FCP II Flow Rate (10" length)\***



\* For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

**Ordering information**

**Nominal lengths**

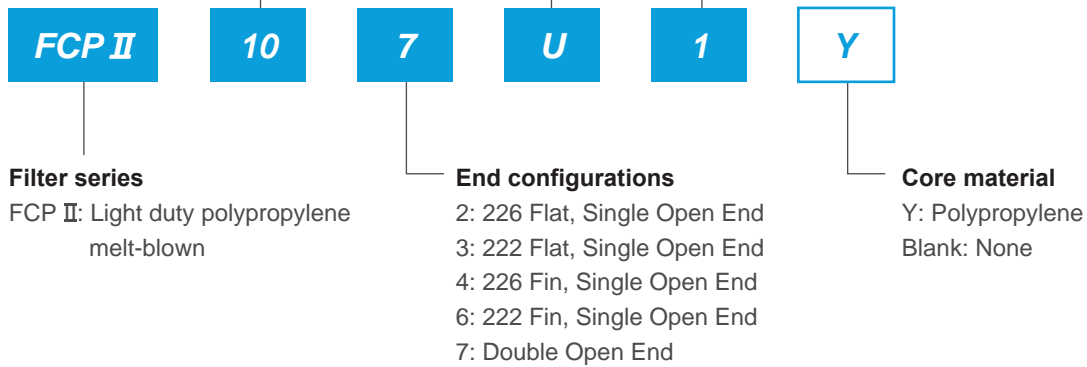
- 10: 10" (254 mm)
- 20: 20" (508 mm)
- 30: 30" (762 mm)
- 40: 40" (1016 mm)

**O-rings / Gaskets**

- B: Buna N
- S: Silicone
- E: EPDM
- V: Viton
- U: None

**Retention ratings**

- 05: 0.5 μm
- 1: 1 μm
- 5: 5 μm
- 10: 10 μm
- 25: 25 μm
- 50: 50 μm
- 75: 75 μm
- 100: 100 μm



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# HIGH STRENGTH MELT-BLOWN CARTRIDGE

## FCP series



Feature-Tec's FCP polypropylene melt-blown filter cartridges features a two-layer construction, resulting in an asymmetric structure. This special design provides a high dirt holding capacity, longer life-time and lower initial differential pressure.

### Applications

- E-coats
- Developers
- Pre-filtration recycled water
- Coolants
- Solutions with lower viscosity
- Electroplating solutions
- Chemicals
- Water treatment
- Edible oils and many more

### Features and benefits

- Excellent chemical compatibility
- No binders or additives
- Made of 100% high purity polypropylene melt-blown fibers
- Special two-layer structure provides low differential pressure and excellent dirt holding capacity

- Available in a wide variety of adapter/end cap configurations
- According to FDA requirements title 21 (CFR 177.1520)

### Filter specifications

#### Material

Polypropylene melt-blown

#### Inner core

Polypropylene

#### O-rings / Gaskets

Buna N, Silicone, EPDM, Viton

#### Retention ratings

0.5, 1, 3, 5, 10, 25, 50, 75, 100 µm

### Dimensions / Parameters

#### Nominal lengths

10", 20", 30", 40"  
(254, 508, 762, 1016 mm)

#### Outside diameter

2,48" (63 mm)

#### Inside diameter

1.1" (28 mm)

#### Maximum operating temperature

80 °C (176 °F)

#### Max. differential pressures

1.18 bar @ 80 °C (17.1 psid @ 176 °F)

2.06 bar @ 60 °C (29,9 psid @ 140 °F)

4.12 bar @ 21 °C (59.7 psid @ 70 °F)

#### Recommended change-out

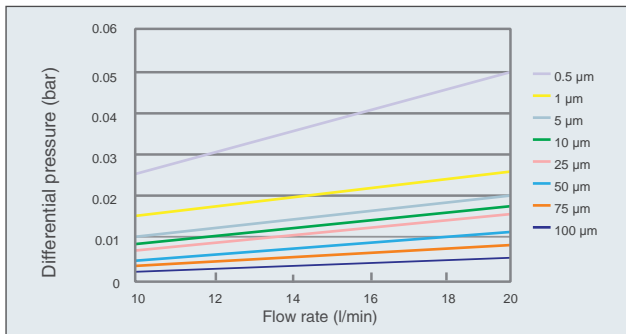
#### pressure drop for disposal

2.1 bar @ 21 °C (30.5 psid @ 70 °F)

1 bar @ 60 °C (14.5 psid @ 140 °F)

■ FCP Filter Cartridge Range

**FCP Flow Rate (10" length)\***



\* For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

**Ordering information**

**Nominal lengths**

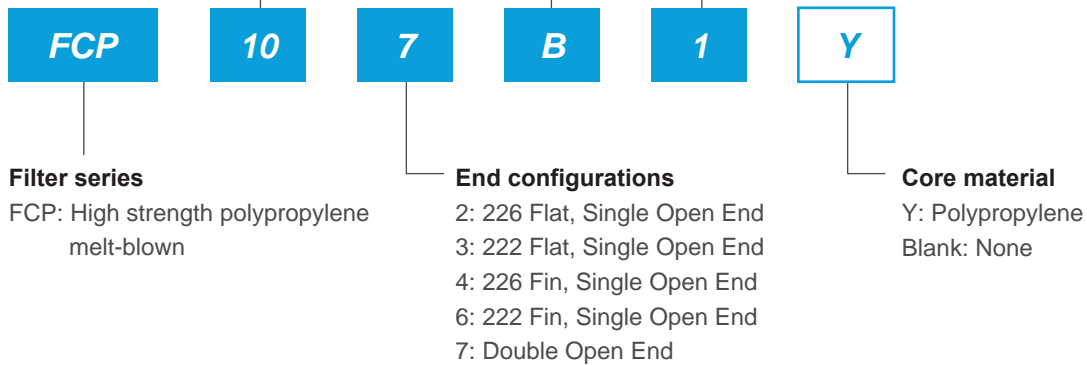
- 10: 10" (254 mm)
- 20: 20" (508 mm)
- 30: 30" (762 mm)
- 40: 40" (1016 mm)

**O-rings / Gaskets**

- B: Buna N
- S: Silicone
- E: EPDM
- V: Viton
- U: None

**Retention ratings**

- 05: 0.5 μm
- 1: 1 μm
- 3: 3 μm
- 5: 5 μm
- 10: 10 μm
- 25: 25 μm
- 50: 50 μm
- 75: 75 μm
- 100: 100 μm



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# ABSOLUTE PRECISION MELT-BLOWN CARTRIDGE

## **FBM series**



*Feature-Tec's FBM polypropylene melt-blown filter cartridges feature a two-layer construction, resulting in an asymmetric structure. This special design provides a high dirt holding capacity, longer life-time and lower initial differential pressure.*

### **Applications**

- E-coats
- Coolants
- Solutions with lower viscosity
- CMP slurries
- Purified water pre-filtration
- Recycled water pre-filtration
- Plant cooling water (PCW) in semiconductor industry
- Water treatment
- Industrial paints and many more

### **Features and benefits**

- Excellent chemical compatibility
- No binders or additives
- Made of 100% high purity polypropylene melt-blown fibers
- Removal ratings up to 99.9%
- Special two-layer structure provides low differential pressure and excellent dirt holding capacity

- Available in a wide variety of adapter/end cap configurations

### **Filter specifications**

#### **Material**

Polypropylene melt-blown

#### **Inner core**

Polypropylene

#### **O-rings / Gaskets**

Buna N, Silicone, EPDM, Viton

#### **Retention ratings**

0.5, 1, 3, 5, 10, 25, 50, 75, 100 µm

### **Dimensions / Parameters**

#### **Nominal lengths**

10", 20", 30", 40"  
(254, 508, 762, 1016 mm)

#### **Outside diameter**

2,48" (63 mm)

#### **Inside diameter**

1.1" (28 mm)

#### **Maximum operating temperature**

93°C (200°F) with core

#### **Max. differential pressures**

1.18 bar @ 80 °C (17.1 psid @ 176 °F)

2.06 bar @ 60 °C (29,9 psid @ 140 °F)

4.12 bar @ 21 °C (59.7 psid @ 70 °F)

#### **Recommended change-out**

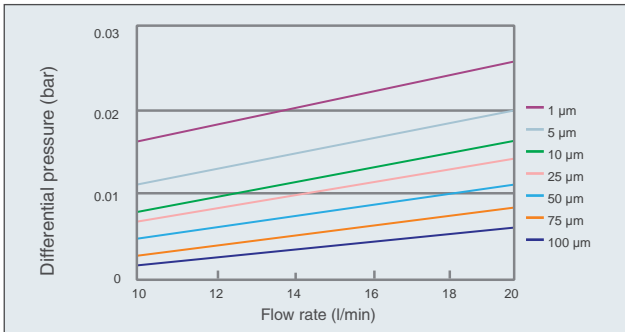
#### **pressure drop for disposal**

3 bar @ 21 °C (43.5 psid @ 70 °F)

1 bar @ 80 °C (14.5 psid @ 176 °F)

■ FBM Filter Cartridge Range

**FBM Flow Rate (10" length)\***



\* For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

**FBM Filter Efficiency**

Removal ratings (µm)	Efficiency (%)							
	0.5	1	5	10	25	50	75	100
D	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
1	89.3	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
5	75.9	91.2	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
10	/	63.8	87.3	>99.9	>99.9	>99.9	>99.9	>99.9
25	/	/	69.9	92.8	>99.9	>99.9	>99.9	>99.9
50	/	/	/	58.1	74.9	>99.9	>99.9	>99.9
75	/	/	/	/	63.9	90.5	>99.9	>99.9
100	/	/	/	/	60.1	87.4	>99.9	>99.9

**Ordering information**

**Nominal lengths**

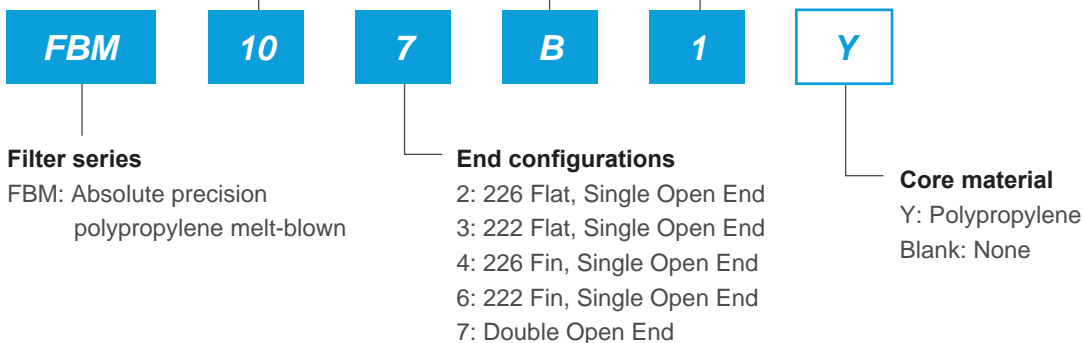
- 10: 10" (254 mm)
- 20: 20" (508 mm)
- 30: 30" (762 mm)
- 40: 40" (1016 mm)

**O-rings / Gaskets**

- B: Buna N
- S: Silicone
- E: EPDM
- V: Viton
- U: None

**Retention ratings**

- 05: 0.5 µm
- 1: 1 µm
- 3: 3 µm
- 5: 5 µm
- 10: 10 µm
- 25: 25 µm
- 50: 50 µm
- 75: 75 µm
- 100: 100 µm



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# NYLON MELT-BLOWN CARTRIDGE

## FCN series



Feature-Tec's FCN nylon meltblown filter cartridges provides filtration characteristics that are more consistent than melt-blown polypropylene filter cartridges. They are suitable for applications with higher temperatures and perfect for special solvent filtration.

### Applications

- Vapor degreasing
- Solvents
- Amine
- Clarification of kerosene, gasoline and diesel
- Paints & varnishes
- Lacquers
- Hydraulic oils
- E-coat
- Liquid propane gas (LPG)
- High temperature fluids
- Emulsions and many more

### Features and benefits

- Excellent chemical and thermal compatibility
- No binders or additives
- High void volume provides low differential pressure and excellent dirt holding capacity

- Excellent for applications with temperatures up to 125 °C
- Available in a wide variety of adapter/end cap configurations
- Graded density for maximum dirt holding capacity
- According to FDA requirements title 21 (CFR 177.1500)

### Filter specifications

#### Material

Nylon 6 melt-blown

#### Inner core

Nylon 6

#### O-rings / Gaskets

Buna N, Silicone, EPDM, Viton

#### Retention ratings

1, 5, 10, 25, 50, 75, 100 µm

### Dimensions / Parameters

#### Nominal lengths

10", 20", 30", 40"  
(254, 508, 762, 1016 mm)

#### Outside diameter

2,48" (63 mm)

#### Inside diameter

1.1" (28 mm)

#### Maximum operating temperature

125 °C (257 °F)

#### Max. differential pressures

*Without nylon core*

1 – 25 µm:

2.45 bar @ 21 °C (35.5 psid @ 70 °F)

50 – 100 µm:

0.98 bar @ 21 °C (14.2 psid @ 70 °F)

#### Recommended change-out

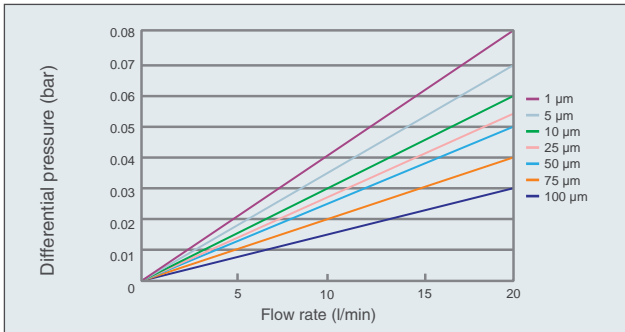
#### pressure drop for disposal

*With nylon core*

3.5 bar @ 21 °C (50.8 psid @ 70 °F)

1 bar @ 125 °C (14.5 psid @ 257 °F)

### FCN Flow Rate (10" length)\*



\* For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

### FCN Filter Efficiency (%)

Removal ratings (µm)	Filtration Efficiency (%)	
1	2µm	90%
5	5µm	90%
10	10µm	90%
25	25µm	90%
50	50µm	90%
75	75µm	90%
100	100µm	90%

### Ordering information

#### Nominal lengths

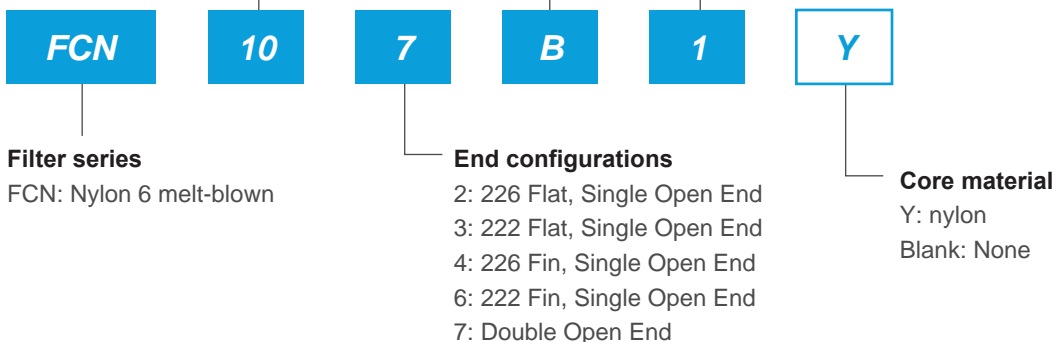
- 10: 10" (254 mm)
- 20: 20" (508 mm)
- 30: 30" (762 mm)
- 40: 40" (1016 mm)

#### O-rings / Gaskets

- B: Buna N
- S: Silicone
- E: EPDM
- V: Viton
- U: None

#### Retention ratings

- 1: 1 µm
- 5: 5 µm
- 10: 10 µm
- 25: 25µm
- 50: 50 µm
- 75: 75 µm
- 100: 100 µm



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# POLYESTER MELT-BLOWN CARTRIDGE

## ***FCE series***



*Feature-Tec's FCE polyester meltblown filter cartridges provides filtration characteristics that are more consistent than melt-blown polypropylene filter cartridges. They are suitable for applications with higher temperatures and perfect for petrochemical solvent filtration.*

### **Applications**

- Acid solutions
- Paints
- Inks
- Resins
- Petrochemicals
- Solvents
- Food and beverages
- Edible oil and many more

### **Features and benefits**

- Excellent chemical and thermal compatibility
- No binders or additives
- High void volume provides low differential pressure and excellent dirt holding capacity
- Excellent for applications with temperatures up to 120 °C

- Graded density for maximum dirt holding capacity
- Available in a wide variety of adapter/end cap configurations

### **Filter specifications**

#### **Material**

Polyester melt-blown

#### **Inner core**

Polyester

#### **O-rings / Gaskets**

Buna N, Silicone, EPDM, Viton

#### **Retention ratings**

1, 5, 10, 25, 50, 75, 100 µm

### **Dimensions / Parameters**

#### **Nominal lengths**

10", 20", 30", 40"  
(254, 508, 762, 1016 mm)

#### **Outside diameter**

2,48" (63 mm)

#### **Inside diameter**

1.1" (28 mm)

#### **Maximum operating temperature**

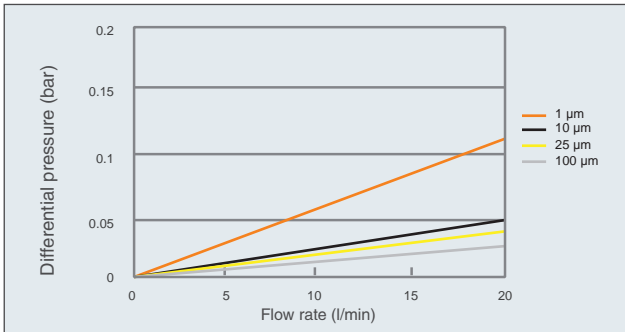
120 °C (248 °F)

#### **Max. differential pressure drop for disposal**

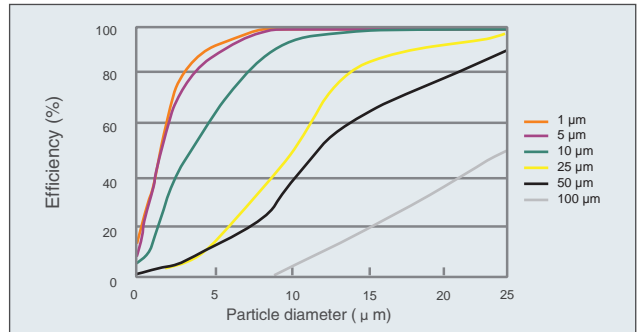
4.12 bar @ 21 °C (59.7 psid @ 70 °F)

■ FCE Filter Cartridge Range

**FCE Flow Rate (10" length)\***



**FCE Filter Efficiency**



\* For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

**Ordering information**

**Nominal lengths**

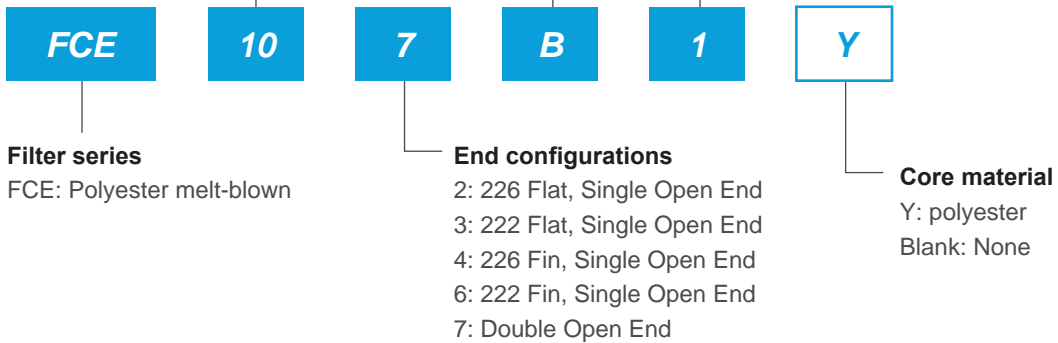
- 10: 10" (254 mm)
- 20: 20" (508 mm)
- 30: 30" (762 mm)
- 40: 40" (1016 mm)

**O-rings / Gaskets**

- B: Buna N
- S: Silicone
- E: EPDM
- V: Viton
- U: None

**Retention ratings**

- 1: 1 µm
- 5: 5 µm
- 10: 10 µm
- 25: 25µm
- 50: 50 µm
- 75: 75 µm
- 100: 100 µm



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