

## Quality Cartridges.... Consistent Filtration....

- Precision winding patterns ensure filtration ratings that are accurate and result in high retention efficiency.
- In-house state-of-the-art production machinery ensures repeatable and consistent high quality products.
- Various fiber and core materials are available to suit a broad range of applications.
- Suitable for both liquid and gas filtration.
- Cost effective and proven versus melt blown, spun-bond and resin bonded cartridges.
- Available in standard 2-1/2" diameter and others.
- Many different cartridge sealing options and end configurations are available.

## SPECIFICATIONS

### FILTER GRADES:

0.5 to 150 microns including 0.5, 1, 3, 5, 10, 15, 20, 25, 30, 40, 50, 75, 100, 150 µm

### LENGTHS:

9.75" to 40" including 9-3/4" (248 mm), 10" (254 mm), 19-1/2" (495 mm), 20" (508 mm), 29-1/4" (743 mm), 29-1/2" (749 mm), 30" (762 mm), 40" (1016 mm)

### OUTSIDE DIAMETER:

Standard: 2-1/2" (64 mm) OD Nominal, Optional: 1-3/4" (44 mm), 2" (51 mm), 2-3/8" (60 mm), 2-1/2" (64 mm), 2-5/8" (67 mm), 2-3/4" (70 mm), 3" (76 mm), 3-1/2" (89 mm), 4" (102 mm), 4-1/4" (108 mm) OD Nominal

### INSIDE DIAMETER:

Standard: 1" (25 mm) ID Nominal

Optional: 1.56" (40 mm) ID Nominal - Wildcat

### RECOMMENDED CHANGE-OUT DIFFERENTIAL PRESSURE:

30 PSID (2.1 BAR)

### MAXIMUM TEMPERATURE RATING:

See Material Selection Guide (Page 2)

### FILTER MEDIA:

Bleached Cotton, FDA Bleached Cotton\*, Natural Cotton, Rayon, Fiberglass, Polypropylene, FDA Polypropylene\*, Polyester.

\* FDA Bleached Cotton and FDA Polypropylene filters are manufactured of materials that comply with FDA requirements for food contact per CFR Title 21.

### CENTER CORE:

Tin Plated Steel, Polypropylene, 304 Stainless Steel, 316 Stainless Steel.

### CORE COVER (Optional):

Covers made from materials such as polypropylene, nylon and polyester can be installed to control the migration of fibers.

### END MODIFIERS (Optional):

Various end modifiers are available to suit individual installation applications.



## APPLICATIONS

- **Chemicals:** polishing of chemical solutions, solvents, acids, bulk industrial chemicals, monomers, process and cooling water.
- **Air & Gas:** instrument air, compressed air, most gases including hydrogen, nitrogen, freon, helium and most other corrosive gases.
- **Photographic:** chemicals, emulsions, wash & rinse water.
- **Pre-filtration**
- **Water and Wastewater, Process Water**
- **Food and Beverage**
- **Other:** mining, deep well disposal, plating solutions, cleaning fluids, lubricating oils, plating solutions, cleaning solutions, adhesives, paint, ink and coatings.

### MATERIAL SELECTION GUIDE

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| FILTER MEDIUM            | COTTON (1)    | POLYPROPYLENE (1) | RAYON         | FIBERGLASS    | POLYESTER     |
|--------------------------|---------------|-------------------|---------------|---------------|---------------|
| <b>MAX. TEMPERATURE</b>  |               |                   |               |               |               |
| with metal core          | 300°F (149°C) | 200°F (93°C)      | 300°F (149°C) | 750°F (399°C) | 250°F (121°C) |
| With polypropylene core  | 140°F (60°C)  | 140°F (60°C)      | 140°F (60°C)  | 140°F (60°C)  | 140°F (60°C)  |
| <b>COMPATIBLE WITH</b>   |               |                   |               |               |               |
| Potable Liquids, Water   | Excellent     | Excellent         | Good          | Poor          | Good          |
| Organic Solvents         | Excellent     | Good              | Excellent     | Excellent     | Excellent     |
| Oils                     | Excellent     | Fair              | Excellent     | Excellent     | Good          |
| Organic Acids            | Good          | Excellent         | Good          | Excellent     | Good          |
| Alkalies                 | Good          | Excellent         | Good          | Poor          | N/R           |
| Oxidizing Agents         | Fair          | Poor              | Fair          | Excellent     | Good          |
| Steam, Non-Continuous    | N/R           | Fair              | N/R           | N/R           | Fair          |
| Strong Inorganic Acids   | N/R           | Excellent         | Poor          | Excellent     | Fair          |
| Dilute Inorganic Acids   | Fair          | Excellent         | Fair          | Excellent     | Good          |
| Microorganism Resistance | Poor          | Excellent         | Poor          | Excellent     | Excellent     |

N/R = Not Recommended

NOTE 1: When using FDA grades please contact Filter Solutions to verify that the product conforms to your national legislation and/or regional authority requirements for water and food contact use.

### ORDERING GUIDE (EXAMPLE C20A30P--)

The example shown below is a bleached cotton cartridge, 20 micron filtration, 2-1/2" (64 mm) OD, 30" Long with a Polypropylene core. No Options selected.

| C 20 A 30 P - -          |               |                     |                         |                         |                       |                        |
|--------------------------|---------------|---------------------|-------------------------|-------------------------|-----------------------|------------------------|
| MEDIA                    | MICRON RATING | OD DIAMETER (INCH)  | LENGTH                  | CORE MATERIAL           | CORE COVER (Optional) | MODIFIERS (Optional)   |
| C = Bleached Cotton      | 0.5           | T = 1.50" (38 mm)   | 975 = 9-3/4" (248 mm)   | T = Tin Plated Steel    | No Symbol = None      | No Symbol = None       |
| CC = FDA Bleached Cotton | 1             | R = 1.75" (44 mm)   | 10 = 10" (254 mm)       | P = Polypropylene       | V = Specified Cover   | PE = Poly Extender     |
| CN = Natural Cotton      | 3             | B = 2.00" (51 mm)   | 195 = 19-1/2" (495 mm)  | A = 304 Stainless Steel |                       | S = Poly Spring        |
| R = Rayon                | 5             | F = 2.38" (60 mm)   | 20 = 20" (508 mm)       | S = 316 Stainless Steel |                       | E = S.S. Core Extender |
| G = Fiberglass           | 10            | A = 2.50" (64 mm)   | 2925 = 29-1/4" (743 mm) | C = Tin Wildcat         |                       |                        |
| P = Polypropylene        | 20            | S = 2.63" (67 mm)   | 295 = 29-1/2" (749 mm)  |                         |                       |                        |
| PP = Polypropylene FDA   | 25            | D = 2.75" (70 mm)   | 30 = 30" (762 mm)       |                         |                       |                        |
| PE = Polyester           | 30            | E = 3.00" (76 mm)   | 40 = 40" (1016 mm)      |                         |                       |                        |
|                          | 40            | J = 3.50" (89 mm)   |                         |                         |                       |                        |
|                          | 50            | L = 4" (102 mm)     |                         |                         |                       |                        |
|                          | 75            | Q = 4-1/4" (108 mm) |                         |                         |                       |                        |
|                          | 100           |                     |                         |                         |                       |                        |
|                          | 150           |                     |                         |                         |                       |                        |

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