

# GREIG FILTERS, INC.

**CONVENTIONAL SERIES  
ABSOLUTE RATED FILTERS**

## *The Cost Effective Approach to Quality Filtration*

With absolute ratings from 0.5 to 70 microns, GFI's pleated cartridges provide efficient solids removal in liquid streams. Each cartridge has a pleated, fixed pore media which maximizes effective surface area while preventing particle unloading and fiber migration. Media selections include cellulose, fiberglass, polyester, and polypropylene.

In this series, GFI offers its customers a choice between standard life and extended life filters. Both filters are composed of the same materials, with the extended life filter offering approximately 30% more surface area. Depending upon application, each style offers specific economic advantages.

GFI's wide variety of pleated media, filter sizes, and end cap configurations provide customers with the preferred cartridge for their specific application. Superior construction methods and materials combined with excellent quality control techniques ensure that GFI filter cartridges will provide quality filtration, even in harsh operating conditions.



### CAP CONFIGURATIONS



**SINGLE OPEN ENDED  
W/ 222 or 226  
O-RING BASE**



**DOUBLE OPEN ENDED  
W/ GASKETS**



**SINGLE OPEN ENDED  
W/ GASKET & SPRING**



**SINGLE OPEN ENDED  
W/ FIN**

### FILTRATION COST EFFICIENCY

#### INCREASING FILTER LIFE

**DOUBLING FILTER SURFACE  
AREA CAN INCREASE FILTER LIFE  
UP TO FOUR TIMES:**

**FILTER LIFE INCREASE =**

$$\frac{L_e}{L_o} = \left( \frac{A_e}{A_o} \right)^N$$

**L<sub>e</sub> = Extended Filter Life  
L<sub>o</sub> = Original Filter Life  
A<sub>e</sub> = Expanded Filter Area  
A<sub>o</sub> = Original Filter Area  
1 ≤ N ≤ 2**

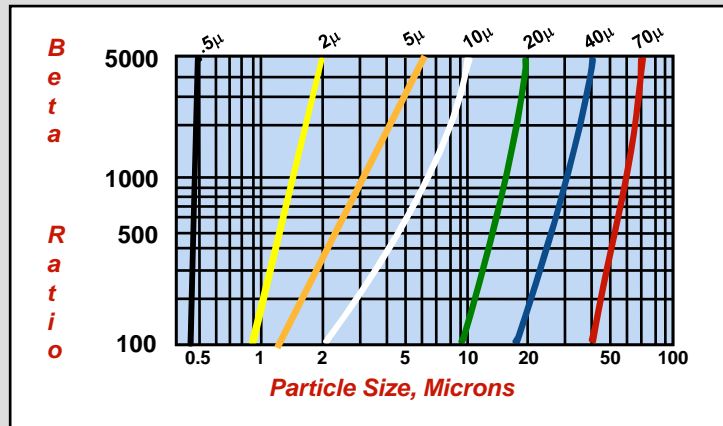
# FILTER EFFICIENCY

$$\text{Beta Ratio} = \frac{\text{Upstream Particle Count at Specified Size \& Larger}}{\text{Downstream Particle Count at Specified Size \& Larger}}$$

The Beta ratio ( $\beta$ ) at a given particle size can be correlated to the filter efficiency at that particle size according to the following formula:

$$\text{Filter Efficiency (\%)} = [(\beta - 1) / \beta] \times 100\%$$

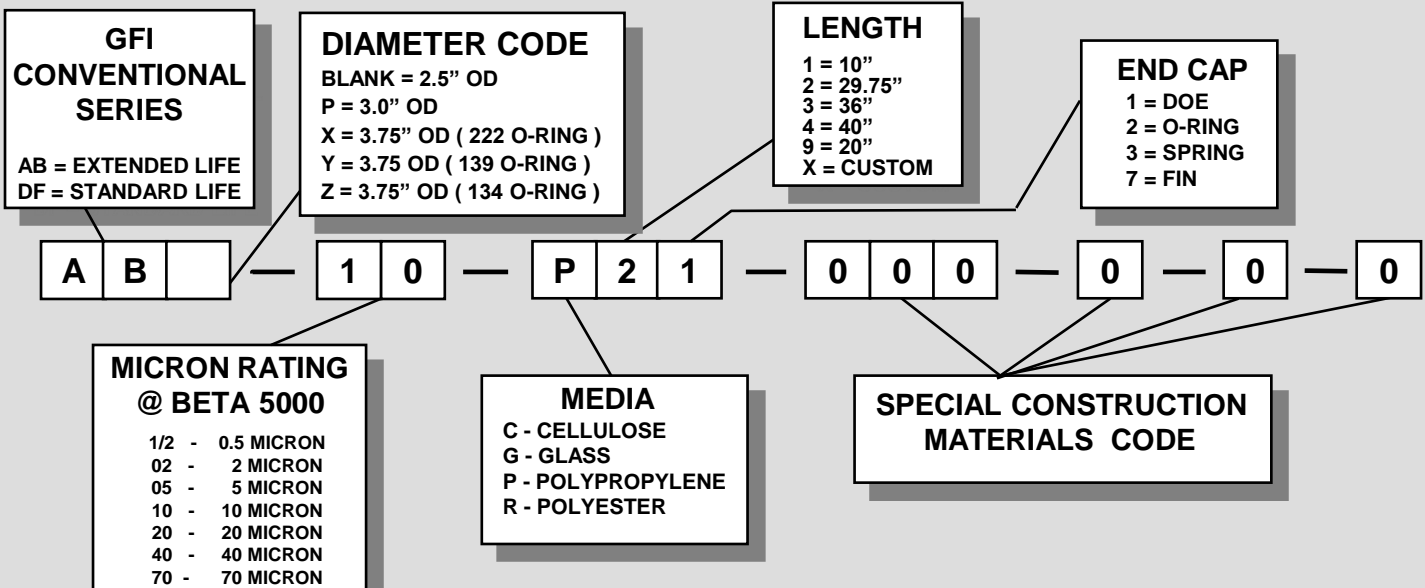
Beta Ratio ( $\beta$ )	Filter Efficiency (%)
100	99.00
1000	99.90
5000	99.98



**BETA CURVES**

Each filter element will have a different Beta Ratio for every specified particle size. The determination of a variety of Beta values for the same filter provides a filter efficiency profile commonly referred to as a Beta Curve.

# CARTRIDGE CODING



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