

BULLETIN CB 200

# CUSTOM PLEATING AND CARTRIDGES

ENGINEERED DESIGNS  
FOR LIQUID AND AIR

 **Keystone Filter Division**



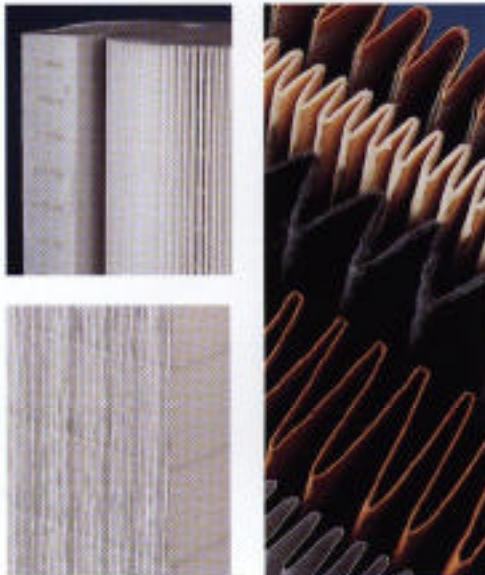
***Creative  
Solutions  
for Your  
Filter  
Problems***





## Design

Do you need help designing a custom filter? We are waiting for your call. Our experienced designers are ready to provide their expertise to help you meet your unique filter requirements. Whether you have firm specifications or only a general concept, we will work with you to develop your new filter or improve an existing one. For over 25 years, we have been working with manufacturers in liquid, air and gas applications, on a proprietary basis, to develop and produce filters to their requirements. **Call us today at 1-800-822-1963 or fax us your specifications on the attached "Request for Quotation".**



## Pleated Media...

During our more than two decades of experience manufacturing custom products, we have successfully pleated a wide variety of media in single or multiple layers including some of the most difficult and fragile materials available. We are able to pleat an extensive range of materials from a maximum pleat height of 3-1/4" to a minimum 7/32" **with or without glue bead separators.**

We maintain regular contact with leading media suppliers to keep current with all of the latest developments in filter media technology. We are ready and waiting to work with you to explore new media and configuration possibilities.



## ...Complete Cartridges

Are you paying high prices for standard filters that may be over-designed for your requirements? We can reduce costs by developing a custom filter tailored to your specific application. Our low tooling costs and short run capability increase your purchasing power, and since we work with many types of filter media, we can, at your request, offer a number of material options to give you the best filter at the best price. Cartridges can be made to your specifications using components of plastic and/or metal.

At Keystone, we specialize in quality. Our filters are now utilized for critical applications such as the computer equipment and nuclear power industries, where consistent conformance to quality standards is essential. We are looking forward to working with you on your current filter needs. **Contact us today.**



## Standard Products

Keystone standard industrial housings and replacement cartridges are stocked in a wide range of sizes and materials, and are available at many filter distributors or on an OEM basis.

Housings are offered in a variety of materials such as polypropylene, high strength nylon and stainless steel.

Cartridges are stocked in single and continuous multiple lengths in cellulose, nonwoven synthetic and sub-micronic microfiber-glass constructions.



Keystone offers a complete line of residential/light commercial filters and cartridges for the removal of sediment, taste and odor and for scale and corrosion control. Filters are also available for the reduction of Giardia cysts and cryptosporidium.

Keystone's 31,000 square foot manufacturing facility in Hatfield, Pennsylvania.







Light Aircraft Filters



Filters for Respiration/Personal Safety Equipment & Indoor Air Quality



Filters for U. S. Department of Defense



Nuclear Power Industry Filters

# Custom Solutions

## Case Study # 1

### PROBLEM:

An engineer developing a new piece of machinery for his company requires an air filter with an efficiency of 99.98% when challenged with 0.1 micron particles. The machine produces a large volume of air to be filtered, but does not allow for great latitude in the filter's dimensions because of space constraints. A number of units must be ready for field testing in only a few months.

### SOLUTION:

Keystone Filter first determines the grade of filter media required. Material is chosen based on our knowledge that the filter will have minimal surface area, because of the space constraints, and that we want to maintain a low pressure drop while providing the desired efficiency of 99.98%. Once filter media is determined, we develop the filter dimensions according to the space requirements given by the customer. In a short time, a prototype mold and filter are produced for testing on the customer's machinery.

### RESULTS:

The customer confirms the filtration efficiency of their new machine by having it tested and certified by an independent laboratory. Within two weeks of approval, production tooling is completed and a short run of filters is produced.

## Case Study #2

### PROBLEM:

A filtration supply company serving the HVAC industry currently purchases panel filters from a large filter manufacturer who private labels their products. They would like to manufacture their own filters, but do not have all of the equipment required to produce them.

### SOLUTION:

Keystone Filter, with its advanced pleat and glue bead technology, determines that they can supply pleated filter media that offers improved performance. This will allow the company to assemble their own panel filters and in turn, reduce their costs.

### RESULTS:

The company continues to purchase components from Keystone Filter and assembles the filter panels themselves.

# Applications

- Compressors
- Vacuum Parts
- Air Driers
- HVAC
- Naval Vessels
- Nuclear Power Plants
- Automotive
- Respirators
- Light Aircraft



# Request for Quotation — Custom Products

This page is provided for multiple use. Please make a photocopy first. Then fill in all information and fax completed form to 215-997-1839.

## General Information

Your Name \_\_\_\_\_ Date \_\_\_\_\_  
Company \_\_\_\_\_ Job Function \_\_\_\_\_  
Mailing Address \_\_\_\_\_ Department \_\_\_\_\_

Telephone \_\_\_\_\_ FAX \_\_\_\_\_ e-mail \_\_\_\_\_

This application is :  New  Existing

Product Desired is:  Pleated Filter Media  Filter Cartridge  Other \_\_\_\_\_

Application is:  Air  Liquid Flow Direction is:  Inside-Out  Outside-In

Flow Rate Required is: \_\_\_\_\_ CFM/GPM

Filter Efficiency Required is: \_\_\_\_\_ % reduction of \_\_\_\_\_ micron particles

Description of Application: \_\_\_\_\_

Type of Media Desired is: \_\_\_\_\_

OR  Manufacturer's Choice

## Cartridge Dimensions

O.D. \_\_\_\_\_

I.D. \_\_\_\_\_

Height \_\_\_\_\_

Glue Bead Separation:  None  Intermittent

Inner Filter Support  Yes  No

Outer Filter Support  Yes  No

End Cap Type: \_\_\_\_\_

## Pleated Element Specifications

Media Width \_\_\_\_\_

Number of Pleats \_\_\_\_\_

Depth of Pleat \_\_\_\_\_

Continuous

Type: \_\_\_\_\_

Type: \_\_\_\_\_

Annual Quantity Required: \_\_\_\_\_ Release Quantity Required: \_\_\_\_\_

Additional Information: \_\_\_\_\_

All information provided will be handled in the strictest confidence.  
Sketches, drawings or samples may be helpful.

Call Thomas Lit-by-Fax at  
1-800-4-FAXCAT for instant  
faxed literature.

Enter literature code:  
8558 for polypro cartridges  
8559 for microfiberglass  
8670 for cellulose  
8571 for industrial housings



# Keystone Filter Division

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