HIGH PERFORMANCE FILTERS AND ELEMENTS

HYDRAULIC AND PROCESS FILTRATION

TECHNOLOGY ESSENTIALS TO MEET YOUR CUSTOMERS’ FILTRATION REQUIREMENTS

Purolator®
What exactly is filtration and why is it an integral part of today’s industries? Simply put, filtration is a protection process, protecting manufacturing equipment, or protecting a product being manufactured.

Hydraulic and Lube oil systems around the world require filtration to protect pumps and valves for continued operation. Both hydraulic and lube oil systems are closed loop systems, with the same fluid being recirculated through the system for hundreds of hours. During this cycle, contaminant can be introduced by system wear, built-in contamination, environmental contamination, or the addition of new fluid that is not truly clean. Not only can repairs of the system due to contamination be costly, but lost revenue caused by down-time can often exceed the component replacement cost.

Process filtration is quite different. Whereas filtration of hydraulic and lube oil allows you to operate machinery to perform a function, process filtration involves the filtration of the actual product being made. The major objective of such single-pass systems is the reduction of contaminant or clarification of the fluid by removing specific sizes of particles in the product.

At Purolator, filtration is our business. Our total business...
HYDRAULIC FILTRATION APPLICATIONS

High Pressure Filter Applications -
- Servo Valve Protection
- Hydraulic material handling equipment -
  - Mining
  - Logging
  - Paper Mills
- Die Cast machines
- Machining Centers
- Hydraulic power units

Medium Pressure Filter Applications -
- Test stands
  - Machine tools
    - Presses
    - Motion controls
    - Mobile boom trucks

Low Pressure Filter Applications -
- Return line filtration
- Machining centers
- Power units
- Filter carts
- Mobile equipment -
  - Farm
  - Construction
  - Fork lifts
  - Log Splitters

Chemical Processing -
- Removal of soft gels
- Hot oven gas applications
- High temperature applications
- Backwashable filters to reduce element replacement costs
- Removal of precious metal catalysts from an organic intermediate stream

Food & Beverage -
- Removal of iron oxides in steam service

Water -
- Resin removal from low level radioactive waste water in nuclear plants

Paper & Pulp -
- Aqueous coatings at paper mills, backwashable system

Film & Fiber -
- Removal of gels from and black specks in polyethylene, polypropylene, and fluorinated polymers
Purolator Facet, Inc. is proud to be ISO-9001 certified.
Hydraulic Filtration: Filter and Element Selection

Cleaning elements don’t last forever; Purolator Facet provides the best porous metal elements available. To select your replacement element: specify the length of the element, the end fitting required, the micron rating, and the media type. Poroplate® elements are best for back flushing and easy cleaning. Poromesh® elements have the greatest surface area for longer life between cleaning. Porofelt® elements have the greatest dirt holding capacity but are more difficult to clean.

To obtain additional information, or request detailed catalog sheets, please complete the form below.

The adjacent chart illustrates how easy it is to select the right filter to meet your requirements. Purolator Facet offers a multitude of options for each filter including: port sizes, bypass valves, indicators, element collapse pressures, seals, types of filter media, and micron ratings. Detailed product literature is available with a part configurator to help you select the filter and element required for your application.
Microfil® III & Hi-collapse Microfil® III filter media -
- Micro-fine glass fibers randomly laid into a multi-layered web
- Offers greatest dirt-holding capacity and longest life
- Offered in standard grades: 1, 3, 6, 12, 20 and 25 micron with efficiency of βx≥200
- Designed and tested to withstand 150, 300 and 3,000 psid element collapse pressure

Micropore® filter media -
- Resin-impregnated cellulose material
- Economical
- Offered in standard grades: 5, 10, 20 and 40 micron with efficiency of βx=2
- Designed and tested to withstand 150 psid element collapse pressure

Poromesh® filter media -
- Sintered 316/316L stainless wire cloth, pleated to maximize filter area and on-stream life
- Excellent for corrosion resistance and high temperature tolerance
- Offered in standard grades: 5, 10, 20, 40, 70, 100 and 150 microns
- Designed and tested to withstand 150 psid element collapse pressure

Poromesh® filter media -
- Multiple layers of individually diffusion-bonded stainless steel wire cloth, pleated to maximize filter area and on-stream life
- Contaminant remains on upstream surface, where it can easily be cleaned by backflushing

Porofelt® filter media -
- Microscopic stainless steel fibers are randomly laid and sintered in a proprietary diffusion bonding process
- The stainless steel fibers are diffusion-bonded between two or more layers of wire cloth, then pleated
- This filter media offers greater dirt-holding capacity, acting more as a depth type medium

Poroplate® filter media -
- Self-supporting media made from multiple layers of stainless steel woven wire cloth, sintered into a rigid laminate porous metal structure
- Poroplate elements are cylindrical, surface-type filters that are perfect for backflushing and repeated cleanings

Microfiltration Media

- Made from 316/316L stainless steel woven wire cloth
- Excellent for corrosion resistance and high temperature applications up to 850F
- Offered in standard filtration grades: 5, 10, 20, 40, 70, 100 and 150 microns
- Designed to withstand 250 psid element collapse pressure

Filter media types:
- Process Filtration Media
- Cleanable Filtration Media
- Disposable & Cleanable Filtration Media

Filtration Media

- Process Filtration Media
- Micropore® filter media
- Poromesh® filter media
- Porofelt® filter media
- Poroplate® filter media

Cleanable Filtration Media

- Microfil® III & Hi-collapse Microfil® III filter media
- Micropore® filter media
- Poromesh® filter media
- Porofelt® filter media
- Poroplate® filter media

Disposable & Cleanable Filtration Media

- Micropore® filter media
- Poromesh® filter media
- Porofelt® filter media
- Poroplate® filter media
Purolator Facet Inc.  
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Please have a sales representative call me with details.  
Please email me when new products or specials are announced.  
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