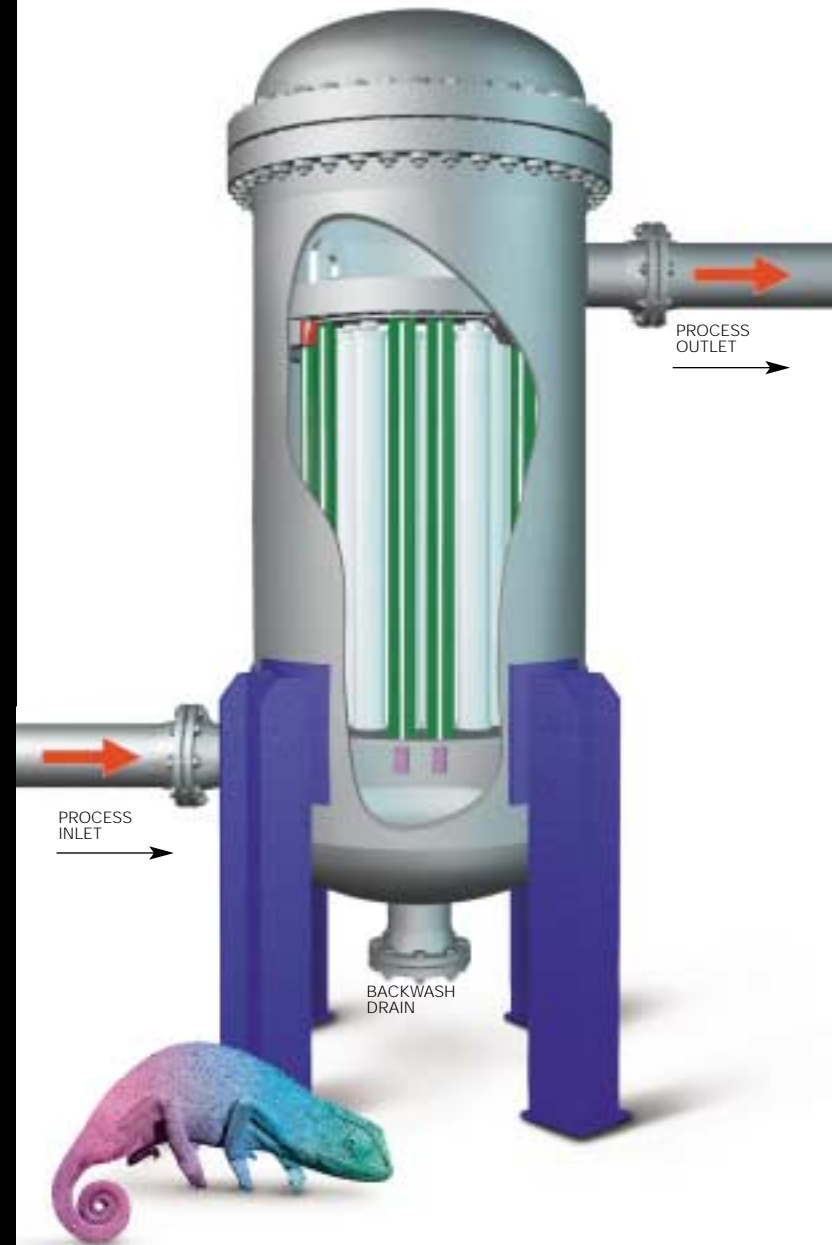


PALL

1 IT'S A CONVENTIONAL  
DISPOSABLE  
FILTER SYSTEM

**DVDFLEX™**  
F I L T E R S Y S T E M

THE ONLY FILTER SYSTEM  
THAT CHANGES  
WITH YOUR NEEDS.



# A CONVENTIONAL DISPOSABLE FILTER SYSTEM

As the world leader in filtration and separations technology, Pall Corporation has typically offered two main filtration approaches for specific solid/liquid separation applications: disposable filter media for low solids loading and polishing, and backwash systems for high solids loading applications. Pall now offers a third option as its latest innovation, the Pall DuoFlex™ filter system. A cross between a conventional disposable filter system and a complete, fully automated backwash system, the DuoFlex filter system was designed for use with disposable filters, yet has the potential to be converted into a self-cleanable backwash filter system with only a modest additional capital investment. The DuoFlex filter system can be outfitted with the appropriate types and grades of disposable or regenerable filters that Pall makes, offering reliability and consistency typical of Pall products. Use of the same vessel, regardless of the mode of filtration you ultimately need, will be provided to you at the lowest possible cost.

The unique DuoFlex filter system offers the broadest flexibility to the user by providing one or more housings equipped with Pall high



performance disposable cartridges. Should the process generate more solids than originally anticipated, and consumption of disposables becomes high, the filter system can easily be converted to the self-cleaning mode. The DuoFlex filter system is custom sized to your application's needs with backwash in mind. Connections and ports are included so that such a conversion requires only the addition of valving, hardware, and automation (if desired). Therefore, you maintain utility of the vessel regardless of what your filtration requirements are today, tomorrow, and in the future. Since Pall has the widest array of continuously advancing disposable and regenerable filters, we can leverage our range of element technology to maximize your process *and* provide the greatest benefit for your application.

A significant number of applications fall between a disposable or backwashable filter selection, making the DuoFlex filter system the optimum choice. With the DuoFlex filter system approach, the disposable element configuration of the housing is ready for conversion, as the vessel has already been designed and outfitted for a potential future backwash system upgrade.

# THE PALL DUOFLEX CONVERTS FROM A SYSTEM TO A BACKWASH SYSTEM WITH A MINIMUM AMOUNT OF

## Pall Disposable Filter Selection



### Profile® II Filters

*Profile II filters are constructed of a polymeric continuously tapered depth-type medium that combines an upstream section and a downstream absolute rated section in a single element.*



### Ultipleat™ Profile® Filters

*The unique crescent-shaped construction of the Ultipleat Profile filter element provides longer life than many pleated polypropylene media. It is optimized for the removal of gels and various fluids.*



### Epocel® Filters

*Epocel cartridges have a pleated, high area, fixed pore construction which eliminates unloading and media migration. Epocel cartridges provide long service life and consistent production.*



### HDC® II Filters

*The HDC II medium consists of multiple layers of continuous fiber, nonwoven polypropylene pleated together, with no binders or extraneous material.*





# EX FILTER SYSTEM STANDARD FILTER WASH SYSTEM WITH A EFFORT AND EXPENSE.

## Pall Non-metallic Backwash Filter Selection



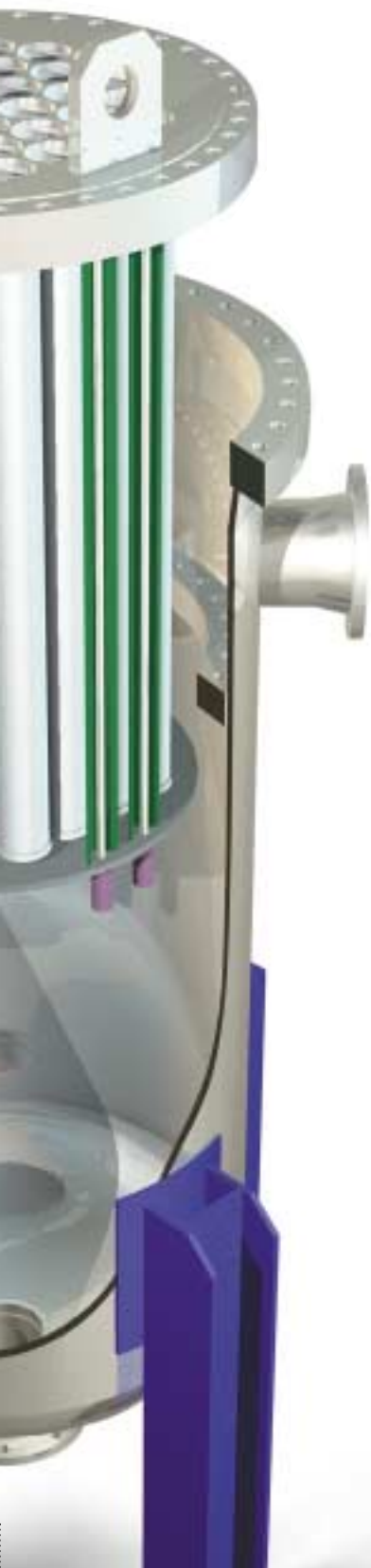
### Prosep® Filters

Prosep filters are manufactured of polyolefin or polyaramid fiber to provide outstanding temperature and chemical compatibility. Prosep filters have a tapered-pore construction, designed for use with or without a precoat.



### Septra™ Filters

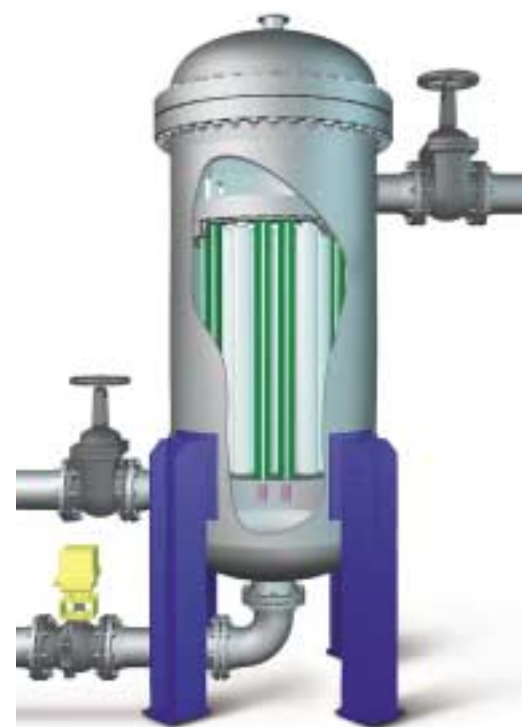
Septra filters incorporate a pleated, high-area absolute-rated polymeric medium in a rugged element construction designed for operation (without use of a precoat) in automated, clean-in-place fluid/solid separation systems. The high-area filter medium is available with polyolefin, polyaramid, or fiberglass fibers to suit operation up to 500°F (260°C).



# A COMPLETE FULLY AUTOMATED BACKWASH SYSTEM

Many applications for which the DuoFlex filter system is an excellent choice include petroleum refining, chemical and petrochemical production, and various types of water systems such as power plants and municipal water. Pall recognized the major role filtration plays in these industries in order to improve system run times, and responded with the DuoFlex filter system design. The DuoFlex filter system is built completely to Pall ASME quality standards, and will meet any specific construction requirements provided to our design team. It is designed to use Pall HDC II, Profile II, Epocel, and Ultipleat Profile disposable cartridges, and Prosep and Septra backwashable filter elements.

All of Pall's state-of-the-art worldwide manufacturing facilities adhere to uniform manufacturing procedures and have been granted International Standards Organization (ISO) certification to ISO 9001. This ensures that Pall filtration products will perform exactly as specified, no matter where in the world they are installed. We look forward to applying our principles, technology and experience to help you achieve a higher level of process control and efficiency in your operations.



## Benefits

- Complete operational flexibility for the future – operates with any of Pall's disposable or self-cleanable filters.
- Low initial capital cost, with minimal added expense for upgrade to complete backwashable system.
- Insurance of complete turn-key package built to design specifications.
- Upgraded filter system is possible without having to remove existing equipment.
- Same high quality in an alternative package design at a lower cost, with option to upgrade.
- Ease of service/design allows for quick individual element changeout or removal of tube sheet bundle.
- Clean housing design – no area for solids to collect.
- Low pressure drop due to good housing flow dynamics.

## DuoFlex filter system is the optimum choice when:

- Disposable filter cartridge consumption may become less economical.
- Plugged filter cartridges and excessive cartridge use results in unacceptable process downtime.
- High changeout frequency results in unacceptably high labor costs and manpower exposure issues.
- Filter cartridge disposal costs are high.
- Process is subject to frequent upsets.
- Filtration/process requirements may change in the future.

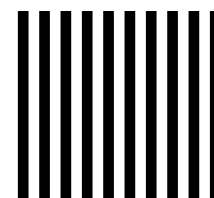
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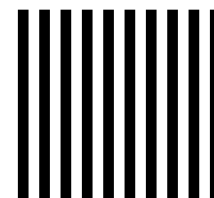
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## Pall DuoFlex™ Filter System— The only filter system that changes with your needs.

Please complete this card and mail it to receive more information on DuoFlex Filter Systems.

Yes! I would like the following:

- Send me information on opportunities to utilize DuoFlex filter systems in my plant.
  - I'd like to set up a technical consultation.
  - Please have a salesperson call me.
- My application is (please provide description):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Telephone: (\_\_\_\_) \_\_\_\_\_ Best time to reach me is: \_\_\_\_\_ (AM/PM)  
Fax: \_\_\_\_\_ E-mail address: \_\_\_\_\_

- Please add my name to the Pall mailing list.  
Thank you for completing this card.

## Pall DuoFlex™ Filter System— The only filter system that changes with your needs.

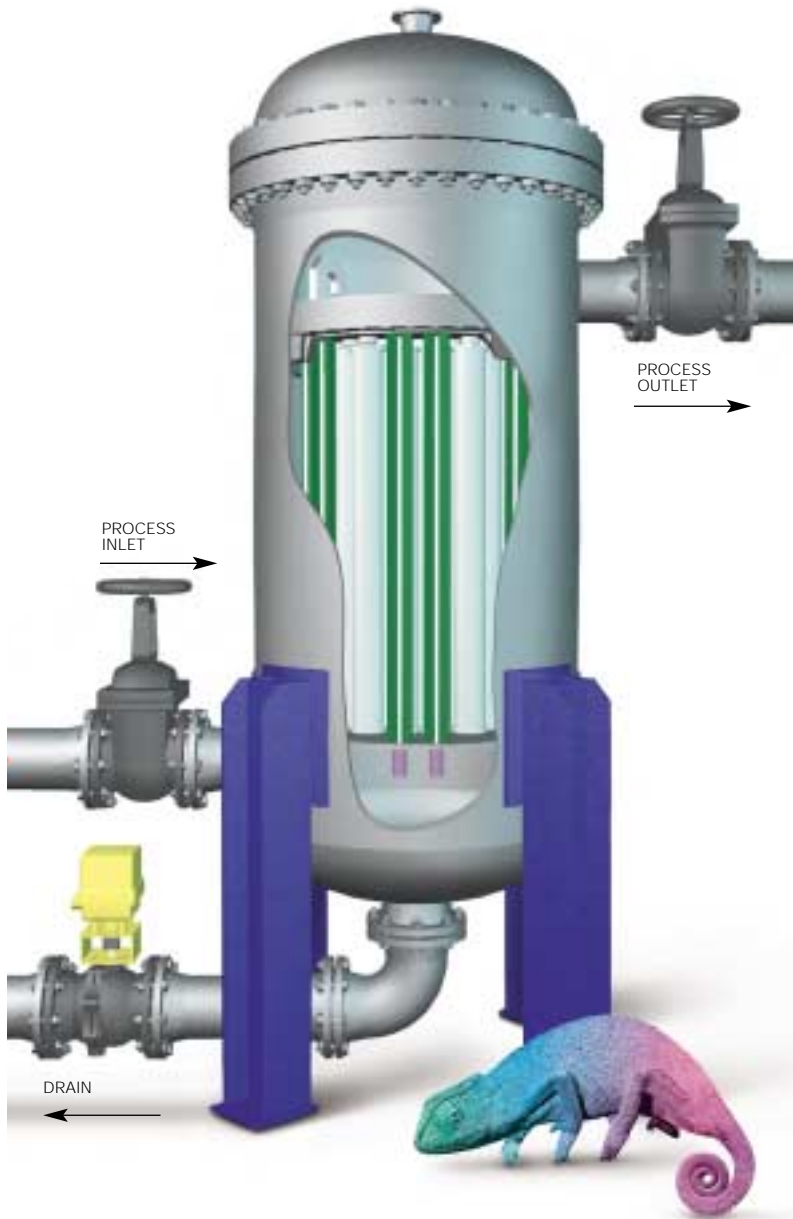
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Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Telephone: (\_\_\_\_) \_\_\_\_\_ Best time to reach me is: \_\_\_\_\_ (AM/PM)  
Fax: \_\_\_\_\_ E-mail address: \_\_\_\_\_

- Please add my name to the Pall mailing list.  
Thank you for completing this card.



# 2 IT'S A COMPLETE FULLY AUTOMATED BACKWASH SYSTEM



Filtration.  
Separation.  
Solution.™

### Pall Corporation

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