iprotect®
Together we can protect
Hydraulic Filter Division Europe
Filtration directly influences equipment productivity and profitability. Parker iprotect® products enable machine owners and OEM’s to gain maximum performance from their hydraulic equipment.
Introducing iprotect®

Parker has recognized the market need to provide more compact filter solutions. The EPF iprotect® range is designed to offer high quality filtration of hydraulic systems, breaking new ground to reduce the cost of ownership by improving system productivity and profitability.

A radical, innovative approach is applied with the design of the iprotect® product family, a new patented filter element allowing easy integration of high pressure filtration in systems.

A unique feature is that the filter elements remain inside the filter bowl when changing the filter element. This can save over 500 mm of space envelope compared with traditional high pressure filters. The patented element design helps to guarantee the quality of filtration, which directly impacts system safety, productivity and profitability.

- Guaranteed quality of filtration.
- More compact solutions are possible.
- The filter element remains in the filter bowl.
- Reusable bypass and element core, both integral part of the filter bowl.
- Reduces waste typically by over 50%.
- No risk of mistakes during change of filter elements due to product design.
- Unique OEM branding opportunities.
- Easy to integrate into hydraulic manifold solutions.
Parker is proud to demonstrate their responsibility towards the industry by offering products that improve the integral safety of systems. The EPF iprotect® product line contributes to the design of dedicated system circuits with a guaranteed quality of filtration.
Safety is imbedded our product design

- Guaranteed quality of filtration improves the integral safety of equipment.
- iprotect® filters are ATEX classified.
- Integrated solutions to minimize potential leakage points
- High filter media efficiency to provide maximum protection to critical systems.
- Optional integrated Condition Monitoring for continuous system monitoring.
- Remote controlled functions of filter and condition monitoring.
iprotect®
Our energy

Saving energy comes in many forms

- iprotect® filter housings have optimized flow paths to minimize energy consumption.
- iprotect® filter elements apply an optional outer core with unique perforation pattern, optimizing flow distribution across the filter element.
- Low initial pressure loss across the filter element reduces energy consumption.
- Pressure loss across the filter element is optimized during its lifetime.
- Unique pleat technology optimize the flow distribution of the hydraulic fluid through the filter media.
Every iprotect® product applies the latest technology to contribute to help minimize the energy consumption across the filter. This reduces the cost of ownership and improves system efficiency and response times.
The market calls for lower cost of ownership against higher levels of productivity. Quality filtration is essential to achieve these goals, not only today but also in the future. The iprotect® product line avoids the use of pirate type alternative filters, acting as protective DNA gene securing the lifetime of the system and the fluid.
Patented iprotect® filters extend the lifetime of components as the quality of filtration is safeguarded.

Standard and customized filter media grades for dedicated conditioning of the oil.

Improved filtration efficiency lowers the wear and tear process at comparable element lifetime.

Zero-leakage bypass.
iprotect®
Your Performance

Patented iprotect® filter elements

- iprotect® filters housings have optimized flow path to minimize energy consumption.
- iprotect® filter elements apply an optional outer core with unique perforation pattern, optimizing flow distribution across the filter element.
- Low initial pressure loss across filter element reduces energy consumption.
- Pressure loss across filter element optimized during lifetime.
With equipment operating often in public or hazardous areas, higher levels of control, safety and reliability are needed. Parker iprotect® products fulfil a vital role to gain maximum performance from hydraulic systems.
Parker has recognized the importance of building OEM brand equity. Patented solutions ensure users of systems are consulting the OEM’s network of spare parts for genuine parts. The iprotect® products provide customized branding opportunities to strengthen the OEM brand.
iprotect®
Your Image

Quality serviceability

- Genuine OEM parts available on global basis.
- High quality print for customizing OEM genuine parts, improving look of element and brand equity.
- Easy change of filter element, no risk of making mistakes.
- Reducing service time by 50% for filters supports lower cost of ownership.
- Customized filter element life time to meet specific OEM service intervals.
- Keep performance and reliability of equipment at a high level by using patented iprotect® filter elements.
- Extended warranty provision when using iprotect® products for Parker system components.
iprotect®
Our Environment

Reduced environmental impact

• Maximum use of reusable components like element core and bypass valve.
• Only the contaminated element pleatpack requires replacement.
• Over 50% lower disposal cost for end users.
• Easy change of filter element reducing oil leakage over 40%.
• Disposable parts can be fully incinerated iprotect® supports ISO14001.
The world around us is changing. With a minimum investment the impact for our environment can be reduced. Parker’s iprotect® products apply maximum use of reusable parts. Because the filter element remains in the bowl during change of filter element, oil leakage is reducted typically by over 40%.
PROFIT

With over 60 years experience in filtration, Parker provides dedicated solutions to protect the profitability and productivity of hydraulic equipment. Parker iprotect® products provide a protected element after market for OEM’s and designated network of spare part dealers.
iprotect®
Your Profit

Protected aftermarket

- Typically over 90% aftermarket coverage.
- Controlled aftermarket channels for OEM’s or users of dedicated private branded iprotect® products.
- Provides optimal system efficiency of equipment sold to the market as filtration quality is secured.
- Reduced warranty cost.
- Improves OEM brand equity.
- Retention management improves as OEM’s remain in contact with end users representing additional business opportunities.
iprotect®
System Integration

Enabling compact solutions

- Bypass valve and element core as integral part of filter bowl.
- Only one cavity needed for manifold block to accommodate the iprotect® filter.
- Filter element remains in filter bowl during element change, less space needed to service the filter.
- Modular building block approach ensures low cost integration of iprotect® filters with valve islands, manifold blocks or pumps.
- Condition monitoring option being integrated in filter housing module.
Next generation systems often require a different approach when it comes to achieving technical and commercial targets. Parker iProtect® products are designed for easy and low cost integration in manifold block type solutions.
EMDPF iprotect®
The EMDPF Series utilizes the unique patented iprotect® element. This manually operated duplex range covers flow rates up to 320 l/min at 420 bar.

Parker seal technology ensures Leakage-free operation of the ball valve, enabling safe replacement of filter elements when the system is in operation.

Parker duplex filters are standard supplied as standard with integrated equalizing line.

EADPF iprotect®
The EADPF Series utilizes the unique patented iprotect® element. This manually operated duplex range covers flow rates up to 320 l/min at 350 bar.

This filter is based on a patented Parker design, allowing complete automatic change-over of the duplex filter. The EADPF is ideal for applications where service engineers cannot directly operate the duplex filter, for example for remote or hazardous applications.

EPF iprotect®
The Parker EPF iprotect® in-line filters are suitable for flow capacity up to 700 l/min at 450 bar working pressure. A wide variety of bypass settings, filter medias, indicators and filter heads represent a dedicated fit to your system.

More compact solutions are possible because the filter element remains inside the filter bowl during service events.
Customized Solutions

The EPF iprotect® can be combined with Parker Hydraulic components. Example no.1 shows a hydraulic charge valve combined with the EPF iprotect® high pressure filter, enabling more compact and lower cost solutions for hydraulic brake systems.

The EPF iprotect® can be combined with Parker Hydraulic valves. Example no.2 shows a load sensing valve island with customized end plate module. The EPF iprotect® high pressure filter is integrated into the valve and protects the pilot lines.

The EPF iprotect® can be combined with Parker manifold solutions. Example no. 3 shows a manifold with integrated hydraulic valves and the EPF iprotect® high pressure filter. Because the filter bypass is integrated into the bowl only one cavity is needed to accommodate the filter, This saves cost, space and reduces risk of leakage.

The EPF iprotect® is ideal for system-matched solutions.
At Parker, we’re guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion or control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control than Parker.

For further information call 08008 27 27 5374

PARKER'S MOTION & CONTROL TECHNOLOGIES

AEROSPACE

Key Markets
- Aerospace
- Agriculture
- Forestry
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products
- Aircraft engines
- Business & general aviation systems
- Commercial transports
- Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

CLIMATE CONTROL

Key Markets
- Agriculture
- Air conditioning
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing
- Transportation

Key Products
- CC controls
- Electronic controllers
- Filter drivers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves

ELECTROMECHANICAL

Key Markets
- Aerospace
- Factory automation
- Life sciences & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products
- A/C systems & components
- Electric actuators
- Gantry robots
- Hydraulic cylinders
- Hydraulic motors & pumps
- Power take offs
- Pneumatic actuators & grippers
- Hydraulic, lubrication & coolant filters
- Pressure regulating valves
- Regenerative distributors
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves

FLUID & GAS HANDLING

Key Markets
- Aerospace
- Agricultural
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products
- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects

HYDRAULICS

Key Markets
- Aerospace
- Aircraft systems
- Agriculture
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Transportation
- Truck hydraulics

Key Products
- Diagnostic equipment
- Hydraulic cylinders
- & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects

PNEUMATICS

Key Markets
- Aerospace
- Convey & material handling
- Factory automation
- Life sciences & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products
- Air preparation
- Brass fittings & valves
- Markits
- Pneumatic accessories
- Pneumatic actuators & grippers
- Quick disconnects
- Rotary actuators
- Rubber & thermoplastic hose & couplings
- Structural sealants
- Thermoplastic tubing & fittings
- Vacuum generators, cups & sensors

PROCESS CONTROL

Key Markets
- Chemical & refining
- Food, beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

Key Products
- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Medium pressure fittings & valves
- Process control manifolds

SEALING & SHIELDING

Key Markets
- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

Key Products
- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management

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