

[Home](#)

[Products](#)

[Support](#)

[Industries](#) / [Products](#) / [Filters, Collecto...](#) / [Filter Assemblies...](#) / [Hydraulic Filters](#) / [High Pressure Inl...](#) / EPF4220QIBXKIT1

[Services](#)

# High Pressure Inline Hydraulic Oil Filter – iProtect® EPF Series

[Solutions](#)

Part # EPF4220QIBXKIT1



The Parker EPF Series is a highly compact, eco-friendly inline hydraulic oil filter that features a re-usable element core. Capable of flows up to 700 L/min (185 GPM). Maximum allowable operating pressure 450 bar (6,500 psi).

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## Technical Specifications

|   |  |
|---|--|
| <p><b>Bypass Valve (bar):</b> 3.5</p> <p><b>Port Connection Type:</b> No filter head</p> <p><b>Flow Capacity (l/min):</b> 0 to 520</p> <p><b>Filter Element:</b> 20QI (Microglass)</p> <p><b>Mounting Type:</b> Manifold integrated</p> <p><b>Indicator:</b> No indicator</p> <p><b>Pressure Setting:</b> No indicator</p> <p><b>Flow Rate:</b> 0 to 520 l/min</p> <p><b>Brand:</b> Parker</p> <p><b>Division:</b> Hydraulic &amp; Industrial Process Filtration Division EMEA</p> <p><b>Bypass Valve Pressure Rating:</b> 3.5 bar</p> <p><b>Connection Type:</b> No filter head</p> <p><b>Industry:</b> Agriculture, Construction, Oil and Gas, Marine, Mining, Material Handling</p> <p><b>Filter Element Type:</b> 20QI (Microglass)</p> | <p><b>Application:</b> Deck and mobile cranes, Forwarders, Hydraulic presses, Marine steering units, Power packs, Excavators, Harvesters, Reach stackers, Wheeled loaders, Drilling equipment, Industrial power units, Wind turbines</p> <p><b>Micron Rating:</b> 20 µm</p> <p><b>Technology:</b> Filtration, Hydraulics</p> <p><b>Product Type:</b> Hydraulic Oil Filters</p> <p><b>Indicator Type:</b> No indicator</p> <p><b>Seal Material:</b> Nitrile</p> <p><b>Product Series:</b> iProtect® EPF</p> <p><b>For Fluid Type:</b> Hydraulic Oil</p> <p><b>Options:</b> Bowl + Element kit, incl. Bypass</p> <p><b>Materials of Construction:</b> Housing: Iron/Steel</p> <p><b>Specifications Met:</b> Degree of filtration determined by multipass test according to ISO 16889.</p> <p><b>Product Style:</b> Inline Filter</p> <p><b>Operating Pressure:</b> 450 bar, 6500 psi</p> <p><b>Operating Temperature:</b> -40 to +100 °C</p> |
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[Safety Warning](#)

## Item Information

The Parker EPF Series is a high pressure, inline hydraulic oil filter that provides high-efficiency filtration for equipment in demanding environments, including mining, construction, marine, drilling, and agricultural applications. A unique feature of the EPF Series is that the filter element remains inside the filter bowl when performing a change-out. This can save over 500 mm of space envelope in comparison with traditional high pressure filters on the market. The filter element core is also reusable, which reduces waste by up to 50% when compared to conventional filters with disposable elements.



EPF Series filters serve as a highly economical filtration solution in high pressure range applications (up to 450 bar), where compact envelopes and high pressure ratings are critical. Specific examples include (but are not limited to) mobile working hydraulics, wind turbines drive systems, pilot line filtration systems, servo controls, industrial working hydraulics, control systems, and reverse flow valve applications.

## Home

The patented design of the filter element allows for integration of the bypass valve and element core as re-usable parts in the filter bowl. This makes the filter secure and eliminates the risk of forgetting to re-install reusable parts during maintenance. Bypass settings are available up to 7 bar (100 psi) or no bypass versions when using patented, high strength filter elements. The principle is based on differential pressure measurement across the filter element.

## Support

The EPF Series is designed for use with EPF Series Replacement Elements and is available with various port connection types, filtration media (2, 5, 10, and 20 micron), indicators, and flow capacities (up to 700 L/min) to meet the unique requirements of customers' hydraulic circuits

## Services and Benefits:

- Prevents damaging of hydraulic circuits or machinery done by dirt, sand, dust, metal, etc.
- Lengthens time in between required maintenance intervals, reduces operating costs, and extends overall equipment/machine operational life

## Where to Buy

~~• Compact filter design can save over 500 mm of space envelope when compared to traditional inline hydraulic filters~~

- Reusable element core with patented filtration technology reduces waste by up to 50% when compared to conventional filters with non-reusable elements
- A "clever" design minimizes the likelihood of installation mistakes
- Can be equipped with an optional reverse flow. This valve assembly is integrated in the element end cap and isolates the filter medium during reverse flow conditions.
- Protected aftermarket to guarantee the use of genuine products to protect equipment/machinery.
- Provides OEM branding (labelling) opportunities
- High efficiency Quantumfiber™ glass media increases particle capture and dirt holding capacity.

For more information or a detailed discussion about your specific requirements please contact Parker or an authorised Parker distributor.

## CAD Drawings + Files



## Related Documents



## Related Products



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Accumulator Service  
Centers



High Pressure  
Hydraulic Oil Filter  
Replacement  
Elements – iProtect®  
EPF Series



Hydraulic Reservoir  
Breather / Air Filter -  
EAB Series



Medium Pressure  
Inline Hydraulic Oil  
Filter – iProtect®  
GMF Series



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