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High Pressure Inline Hydraulic Oil Filter – iProtect® EPF Series

[Part # EPF4210QIBF1MX201](#)

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

Bypass Valve (bar):	7.0	Application:	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
Flow Capacity (l/min):	0 to 500	Micron Rating:	10 µm
Filter Element:	10QI (Microglass)	Technology:	Filtration, Hydraulics
Port Connection Type:	Manifold Ø34 mm	Product Type:	Hydraulic Oil Filters
Indicator Pressure Setting:	5.0 bar	Indicator Type:	Electronic 4 LED, PNP, N.O.
Brand:	Parker	Product Series:	iProtect® EPF
Flow Rate:	0 to 500 l/min	Seal Material:	Nitrile
Bypass Valve Pressure Rating:	7.0 bar	For Fluid Type:	Hydraulic Oil
Division:	Hydraulic & Industrial Process Filtration Division EMEA	Options:	Standard, incl. Bypass
Connection Type:	Manifold Ø34 mm	Materials of Construction:	Housing: Iron/Steel
Industry:	Agriculture, Construction, Oil and Gas, Marine, Mining, Material Handling	Specifications Met:	Degree of filtration determined by multipass test according to ISO 16889.
Filter Element Type:	10QI (Microglass)	Product Style:	Inline Filter
		Operating Pressure:	450 bar

[! 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 non-reusable elements.

EPF Series filters serve as a highly economical filtration solution in high pressure range applications (up to 450 bar), where compact envelopes

and low fatigue pressure ratings are critical. Specific examples include (but are not limited to) mobile working hydraulics, wind turbines, drive
s. The filtration systems, servo controls, industrial working hydraulics, control systems, and reverse flow valve applications.

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Features and Benefits:

Prevents damaging of hydraulic circuits or machinery done by dirt, sand, dust, metal, etc.

Solutions

Reduces time in between required maintenance intervals, reduces operating costs, and extends overall equipment/machine operational life

Where to Buy

The new 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



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Parker Certified
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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