High Pressure Inline Hydraulic Oil Filter – iProtect® EPF Series

Part #EPF4210QIBM3MG241

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
Flow Capacity (l/min):	0 to 500
Filter Element:	10QI (Microglass)
Port Connection Type:	G1-1/2
Indicator Pressure Setting:	5.0 bar
Flow Rate:	0 to 500 l/min
Brand:	Parker
Bypass Valve Pressure Rating:	7.0 bar
Division:	Hydraulic & Industrial Process Filtration Division EMEA
Connection Type:	G1½
Industry:	Agriculture, Construction, Oil and Gas, Marine, Mining, Material Handling
Filter Element Type:	10QI (Microglass)

Safety Warning

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
Micron Rating:	10 µm
Technology:	Filtration, Hydraulics
Indicator Type:	Visual
Product Type:	Hydraulic Oil Filters
Product Series:	iProtect® EPF
Seal Material:	Nitrile
For Fluid Type:	Hydraulic Oil
Options:	Standard, incl. Bypass
Materials of Construction:	Housing: Iron/Steel
Specifications Met:	Degree of filtration determined by multipass test according to ISO 16889.
Product Style:	Inline Filter
Operating Pressure:	450 bar

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

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.

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

Features 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
- 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 Quantμmfiber™ 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

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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