

# Parker Product Datasheet



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 pressure up to 450 bar (6,500 psi).

**PART NUMBER:** EPF1105QIBM3MG081  
**FLOW RATE:** 0 to 35 l/min  
**CONNECTION TYPE:** G $\frac{1}{2}$   
**SEAL MATERIAL:** Nitrile  
**FILTER ELEMENT TYPE:** 05QI (Microglass)  
**MICRON RATING:** 5  $\mu$ m  
**OPTIONS:** Standard, incl. Bypass  
**INDICATOR TYPE:** Visual  
**BYPASS VALVE PRESSURE RATING:** 7.0 bar  
**PORT CONNECTION TYPE:** G1/2  
**FILTER ELEMENT:** 05QI (Microglass)  
**BYPASS VALVE (BAR):** 7.0  
**FLOW CAPACITY (L/MIN):** 0 to 35

## PRODUCT OVERVIEW

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, pilot line 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 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.

## TECH SPECIFICATIONS

|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| <b>DIVISION</b>           | Hydraulic & Industrial Process Filtration Division EMEA                   |
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| <b>FOR FLUID TYPE</b>     | Hydraulic Oil                                                             |
| <b>INDUSTRY</b>           | Marine                                                                    |
| <b>INDUSTRY</b>           | Material Handling                                                         |
| <b>INDUSTRY</b>           | Mining                                                                    |
| <b>INDUSTRY</b>           | Construction                                                              |
| <b>INDUSTRY</b>           | Agriculture                                                               |
| <b>INDUSTRY</b>           | Oil and Gas                                                               |
| <b>SPECIFICATIONS MET</b> | Degree of filtration determined by multipass test according to ISO 16889. |
| <b>APPLICATION</b>        | Forwarders                                                                |
| <b>APPLICATION</b>        | Reach stackers                                                            |
| <b>APPLICATION</b>        | Marine steering units                                                     |
| <b>APPLICATION</b>        | Drilling equipment                                                        |
| <b>APPLICATION</b>        | Wind turbines                                                             |
| <b>APPLICATION</b>        | Excavators                                                                |
| <b>APPLICATION</b>        | Wheeled loaders                                                           |
| <b>APPLICATION</b>        | Hydraulic presses                                                         |
| <b>APPLICATION</b>        | Harvesters                                                                |
| <b>APPLICATION</b>        | Deck and mobile cranes                                                    |
| <b>APPLICATION</b>        | Industrial power units                                                    |

|                                   |                       |
|-----------------------------------|-----------------------|
| <b>APPLICATION</b>                | Power packs           |
| <b>BRAND</b>                      | Parker                |
| <b>TECHNOLOGY</b>                 | Hydraulics            |
| <b>TECHNOLOGY</b>                 | Filtration            |
| <b>PRODUCT STYLE</b>              | Inline Filter         |
| <b>PRODUCT SERIES</b>             | iProtect® EPF         |
| <b>PRODUCT TYPE</b>               | Hydraulic Oil Filters |
| <b>MATERIALS OF CONSTRUCTION</b>  | Housing: Iron/Steel   |
| <b>OPERATING PRESSURE</b>         | Up to 450 bar         |
| <b>INDICATOR PRESSURE SETTING</b> | 5 bar                 |