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# Medium Pressure Inline Hydraulic Oil Filter – iProtect® GMF Series

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Part # **GMF2120QIVM3GG124**



The Parker GMF Series is a highly compact, environmentally friendly inline hydraulic oil filter that features a re-usable element core. Capable of flows up to 600 L/min (158 GPM). Maximum allowable operating pressure 70 bar (1,015 psi).

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## Technical Specifications

|                                      |   |                                    |   |
|--------------------------------------|---|------------------------------------|---|
| <b>Flow Rate:</b>                    | 0 to 90 l/min   | <b>Product Type:</b>               | Hydraulic Oil Filters   |
| <b>Brand:</b>                        | Parker  | <b>Options:</b>                    | With drain port   |
| <b>Division:</b>                     | Hydraulic & Industrial Process Filtration Division EMEA   | <b>Product Series:</b>             | iProtect® GMF   |
| <b>Bypass Valve Pressure Rating:</b> | 1.7 bar   | <b>Seal Material:</b>              | Fluorelastomer  |
| <b>Connection Type:</b>              | G3/4  | <b>For Fluid Type:</b>             | Hydraulic Oil   |
| <b>Industry:</b>                     | Forestry, Mining, Marine, Oil & Gas, Construction, Agriculture  | <b>Materials of Construction:</b>  | Housing: Aluminium  |
| <b>Filter Element Type:</b>          | 20QI Quantumfiber™  | <b>Operating Pressure:</b>         | 70.0 bar  |
| <b>Application:</b>                  | Industrial Power units, Drilling equipment, Wheeled loaders, Reach stackers, Waste balers, Harvesters, Excavators, Dump and fork lift trucks, Waste management, Power packs, Marine steering units, Hydraulic presses, Forwarders, Firefighting equipment, Deck and Mobile cranes | <b>Operating Temperature:</b>      | -20 to +120 °C  |
| <b>Micron Rating:</b>                | 20 µm   | <b>Specifications Met:</b>         | Degree of filtration determined by multipass test according to ISO 16889. |
| <b>Technology:</b>                   | Hydraulics, Filtration  | <b>Product Style:</b>              | Inline Filters  |
| <b>Indicator Type:</b>               | Visual indicator  | <b>Mounting Type:</b>              | Inline  |
|                                      |   | <b>Indicator Pressure Setting:</b> | 1.5 bar   |

[Safety Warning](#)

## Item Information

The Parker GMF Series is a medium pressure, inline hydraulic oil filter that provides high-efficiency filtration for equipment in demanding environments, including mining, construction, marine, drilling, and agricultural applications. The filter's highly compact design can save over 500 mm of space envelope when compared to traditional inline hydraulic filters. It also features a reusable element core with patented filtration technology, which reduces waste by up to 50% when compared to conventional filters with non-reusable cores.

GMF Series filters serve as a highly economical filtration solution in medium pressure range applications (up to 70 bar), where compact envelopes and excellent fatigue pressure ratings are of the utmost importance. Specific examples include (but are not limited to) offline filter loops, machine tools, oil patch drilling equipment, injection molding machines, hydrostatic drive charge pumps, and pilot lines for servo controls.

**Parker** availability of the GMF Series inline filter, applications such as these were restricted by limitations of a spin-on can or forced into the higher cost range of high pressure filters. The GMF Series fills this gap and is available with various port connection types, filtration media (2,5,10, and 20 micron), and flow capacities (up to 600 L/min) to meet the unique requirements of customers' hydraulic circuits. The GMF Series Inline Hydraulic Oil Filter is designed for use with patented GMF Series Replacement Elements.

#### Products

#### 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.

#### Industries

- Reusable element core with patented filtration technology reduces waste by up to 50% when compared to conventional filters with non-reusable elements.

#### Services

- "Clicker" design minimizes the likelihood of installation mistakes.

- Protected aftermarket to guarantee the use of genuine products to protect equipment/machinery.

#### Solutions

- Provides OEM branding (labelling) opportunities.

Where to Buy

## CAD Drawings + Files



## Related Documents



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Parker Certified  
Accumulator Service  
Centers



Medium Pressure  
Hydraulic Oil Filter  
Replacement  
Elements - iProtect®  
GMF Series



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Breather / Air Filter -  
EAB Series



High Pressure Inline  
Hydraulic Oil Filter -  
iProtect® EPF Series



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