

Parker Product Datasheet



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).

PART NUMBER: GMF3110QIVPKG241
FLOW RATE: 0 to 120 l/min
CONNECTION TYPE: G1 1/2
SEAL MATERIAL: Fluorelastomer
FILTER ELEMENT TYPE: 10QI Quantumfiber™
MICRON RATING: 10 µm
OPTIONS: Standard (Without drain port)
INDICATOR TYPE: Plugged with steel plug
BYPASS VALVE PRESSURE RATING: 3.5 bar

PRODUCT OVERVIEW

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.

Prior to the 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.

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.
- Protected aftermarket to guarantee the use of genuine products to protect equipment/machinery.
- Provides OEM branding (labelling) opportunities.

TECH SPECIFICATIONS

DIVISION	Hydraulic & Industrial Process Filtration Division EMEA
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FOR FLUID TYPE	Hydraulic Oil
INDUSTRY	Construction
INDUSTRY	Forestry
INDUSTRY	Oil & Gas
INDUSTRY	Mining

INDUSTRY	Marine
INDUSTRY	Agriculture
SPECIFICATIONS MET	Degree of filtration determined by multipass test according to ISO 16889.
APPLICATION	Waste management
APPLICATION	Forwarders
APPLICATION	Dump and fork lift trucks
APPLICATION	Wheeled loaders
APPLICATION	Waste balers
APPLICATION	Drilling equipment
APPLICATION	Excavators
APPLICATION	Reach stackers
APPLICATION	Harvesters
APPLICATION	Industrial Power units
APPLICATION	Marine steering units
APPLICATION	Firefighting equipment
APPLICATION	Deck and Mobile cranes
APPLICATION	Hydraulic presses
APPLICATION	Power packs
BRAND	Parker
TECHNOLOGY	Hydraulics
TECHNOLOGY	Filtration
PRODUCT STYLE	Inline Filters
PRODUCT SERIES	iProtect® GMF
PRODUCT TYPE	Hydraulic Oil Filters
MATERIALS OF CONSTRUCTION	Housing: Aluminium
OPERATING PRESSURE	70 bar

OPERATING TEMPERATURE	-20 to 120 °C
MOUNTING TYPE	Inline
INDICATOR PRESSURE SETTING	No Indicator