

Medium Pressure Inline Hydraulic Oil Filter – iProtect® GMF Series

Part #: GMF3220QIVT1KG241



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

Flow Rate:	0 to 270 l/min	Product Type:	Hydraulic Oil Filters
Brand:	Parker	Product Series:	iProtect® GMF
Division:	Hydraulic & Industrial Process Filtration Division EMEA	Options:	Standard (Without drain port)
Bypass Valve		Seal Material:	Fluorelastomer
Pressure Rating:	3.5 bar	For Fluid Type:	Hydraulic Oil
Connection		Materials of	
Type:	G1 1/2	Construction:	Housing: Aluminium
Industry:	Forestry, Mining, Marine, Oil & Gas, Construction, Agriculture	Operating	
Filter Element		Pressure:	70.0 bar
Type:	20QI Quantumfiber™	Operating	
	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	Temperature:	-20 to +120 °C
Application:		Specifications	Degree of filtration determined by multipass test according to ISO 16889.
		Met:	
Micron Rating:	20 µm	Product Style:	Inline Filters
Technology:	Hydraulics, Filtration	Mounting Type:	Inline
Indicator Type:	Electrical indicator	Indicator	
		Pressure	2.5 bar
		Setting:	

[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.

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.

CAD Drawings + Files



Related Documents



Related Products



**Parker Certified
Accumulator Service
Centers**



**Medium Pressure
Hydraulic Oil Filter
Replacement
Elements – iProtect®
GMF Series**



**Hydraulic Reservoir
Breather / Air Filter -
EAB Series**



**High Pressure Inline
Hydraulic Oil Filter –
iProtect® EPF Series**



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