



Pall Corporation

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Versalon™ Hydraulic and Lube Oil Filters

for OEM and Mobile Equipment Applications



Filtration. Separation. Solution.SM

M&EVERSENa

Introduction



Fuels, Lubrication oils and Hydraulic fluids are typical of the fluids Versalon filters clean to achieve long-term equipment reliability and performance, environmental protection and reduced cost of ownership. Pall comprehensively supports OEM customers with a commitment to early design feasibility and performance evaluation both in the laboratory and in the field. Pall operates to compliant practices for mobile equipment manufacturers.

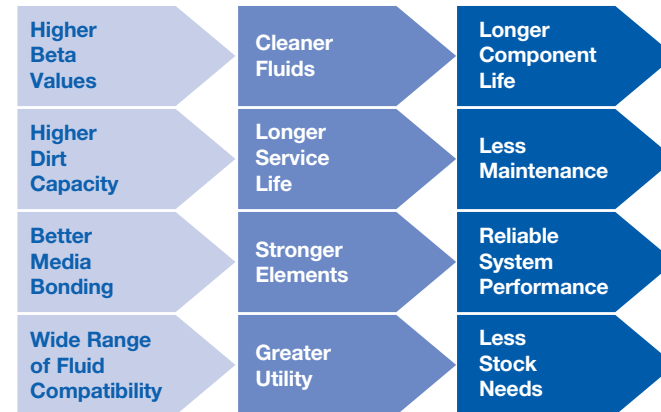
Benefits

- ▶ Guaranteed after market revenue stream
- ▶ Reduced warranty costs
- ▶ Fewer field service demands
- ▶ Reduced risk of catastrophic failure on start-up
- ▶ Leaner inventory levels
- ▶ Worldwide filter element availability
- ▶ Global technical field support

The Versalon™ range of filters is designed specifically with mobile equipment manufacturers and OEMs in mind.

They offer a high performance, affordable solution when critical fluid cleanliness control is required. The filter package is compact and is available in a variety of configurations. In addition it's unique element-to-filter head locking mechanism helps support the OEM after market revenue stream.

The filters are simple to service, require no special tools and are built to a product cleanliness standard that prevents built-in system dirt contributing towards premature equipment failure.



Maximum protection for mobile equipment

Versalon filters provide OEMs and Users with unrivalled equipment protection and increased operating confidence.

These compact, robust filter housings have industry standard interfaces and common pipe size fittings. Filters can be supplied painted, unpainted or in a finish to meet branding requirements. For peace of mind, Versalon filters are 100% quality assurance tested to confirm filter assembly cleanliness and integrity, identified by a 'head to bowl' security tab.

High performance Versalon filter elements feature a bonded glass fiber filter media providing a $\beta_{x(c)} \geq 1000$ (ISO 16889) rating at 7, 12, 19 and 22 μm , for consistent system fluid cleanliness, optimised flow path for low pressure drop (ΔP) and lower energy operation, and long filter element service life.

Simple solutions are the best solutions!

Fitting and removing the Versalon filter element is made easy by the unique 'clip-cap' mechanism. Whilst facilitating a guaranteed fit and positive seal between housing and filter element, it also enables OEMs to reinforce aftermarket warranty programs and maximise spares revenues.

Knowing when the system filter has, or will soon be blocked is equally important to achieving reliable

Features the 'clip-cap' installation mechanism supporting aftermarket element retention.



equipment operation. Versalon filters are available with a range of interchangeable mechanical and electrical differential pressure indicators that inform the user that filter blockage is imminent and filter change is required. Notification occurs before the bypass valve opens, ensuring unfiltered fluid does not travel downstream. (See Pall data sheet M&ERCAEN for full details).

Housings, elements and indicators are all sold separately to help manage stock inventories and can be packed individually, in kits or in bulk, dependent on quantity and preferred supply requirement.

	Series	Operating Pressure	Max Flow	Filter Element Series	Element Length (in inches)
High Pressure Filters	G210	250 bar (3625 psi)	50 L/min (13 US gpm)	HCG200	4, 8
	G310	250 bar (3625 psi)	120 L/min (32 US gpm)	HCG300	4
	G410	420 bar (6,090 psi)	250 L/min (66 US gpm)	HCG300	4, 8, 10
Medium Pressure Filters	F310	70 bar (1,015 psi)	125 L/min (33 US gpm)	HCG300	4, 8
	F410	70 bar (1,015 psi)	250 L/min (66 US gpm)	HCG300	10, 13



Electrical ΔP Indicator



Mechanical ΔP Indicator



Production Test Rigs

Pall customers ensure 'Original Equipment' meets standards of design performance through production test and pass off rigs. These rigs also require rigorous application of filtration for reliability. Failure in this part of the manufacturing process is a costly non value added expense. To ensure OEM's have the correct filtration standards and supporting diagnostic monitoring of their rigs, Pall can facilitate audits and recommendations to ensure consistent and reliable product throughput.

Global Leader

Pall Corporation is a global leader in the high-tech filtration, separation, and purification industry by meeting the diverse needs of customers across the broad spectrum of industry. The company's highly engineered process solutions protect people and critical assets, while minimizing emissions and waste.

Manufacturers of all types as well as hospitals, laboratories, airlines, and municipal water suppliers rely on our filters to produce safe, high-quality products. They invest in them to protect precious fluids,



the environment and to prolong the life of expensive equipment. Our products also are key to the reliability of construction and mining equipment and we help energy companies maximize production and develop commercially successful cleaner-burning and alternative fuels.



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