

# Hydraulic Filtration Solutions

Preferred products for quick delivery



ENGINEERING YOUR SUCCESS.

# GROW WITH FILTRATION

Parker is always looking for the best solution for our customers. That means providing high quality products, support and opportunities; Parker is helping you to meet the needs of end-users, and opening doors to profitable new business.

This brochure introduces you to the package of preferred Hydraulic Filtration solutions, including information about our unique technical, training and configuration tools.

Growing business together; you trust us with your reputation. So when you work with Parker, you can expect a true partnership – with our ideas, resources and expertise dedicated to achieving shared success.

## SERVICE AND SUPPORT

Our partners enjoy the very best in sales and technical support, including comprehensive product information, interactive specification tools and innovative training resources. On-line or in-person, we'll make sure you receive the support you need.



## PRODUCT EXCELLENCE

Every Parker product is engineered and manufactured to the highest standards. It's a quality commitment that drives efficiency, reliability and profitability gains for you and your customers.



# TABLE OF CONTENTS



<b>Prevention</b>	
GLF iprotect® Series	8
GMF iprotect® Series	10
EPF iprotect® Series	11
Triceptor	13
Reservoir Equipment	14
Fluid Level Measurement	17
Suction Elements	17
Par Fit	18
<b>Treatment</b>	
10MFP Series	27
<b>Diagnosis</b>	
WiFi icount Oil Sampler (IOS)	30
icountPD - Particle Detector	31
System 20	31
icountLCM20 (LCM)	32
Flow meters	33
Fluid Condition Sensor (FCS)	34
DIGI Field Kit	35
Low Range DIGI Water Kit	35
Heated Viscomeer	36
Oil Check	36
Bearing Checker	37

## RESEARCH AND DEVELOPMENT

Parker is constantly working on product development. That's why our R&D investment is ongoing, and focussed on delivering continual product improvements, creating new opportunities and new products aimed at strengthening our product portfolio.



## GLOBAL REACH



With 24/7 manufacturing across the globe and expertise in every marketplace, Parker has unrivalled capability to deliver products, wherever you operate.



# TOTAL SYSTEM HEALTH WITH KNOWLEDGE

The industrial world is built on tough, hard-working plant and machinery. In the markets such as power generation, forestry, mining and construction equipment, down-time is the enemy of profitability. Hydraulic filtration product solutions drive cost-effective maintenance and maximum output.

## HYDRAULIC FILTRATION

- Advanced solutions for a huge variety of mobile and industrial applications.
- Designed to maximise system and component lifetime in hydraulic and lubrication systems.
- Improving performance, saving operating cost, and reducing environmental impact.
- 'Next generation' technology, supporting equipment innovation.



## HEAVY DUTY FUEL AND LUBRICATION FILTRATION



- Filtration on an industrial scale, for gas, fuel, hydraulic oil and lubrication systems.
- From off-shore and marine to power generation and renewable energy.
- Wide range of low, medium and high pressure multi-purpose filters and customised solutions.
- Delivering optimum productivity, control, reliability and safety.
- Looking after systems, protecting the customer's investment.

DEDICATED SERVICE  
AND SUPPORT FOR  
OUR PARTNERS.



## CONDITION MONITORING PRODUCTS

- Super-sensitive fluid condition monitoring products, for today's sophisticated equipment.
- On-line particle detectors for 24/7 system diagnostics.
- Off-line bottle samplers and analysers.
- Innovative sensors designed to monitor and measure moisture in fluid.
- Providing real time data, and optimising system efficiency, safety and operating costs.



## AFTERMARKET REPLACEMENT PRODUCTS



- Specification, reliability, availability and price - Par Fit meets every requirement.
- Over 85,000 interchange filter elements, covering almost every main OE part and recognised manufacturer.
- Parker engineered, to the latest ISO standards, for ultimate reliability and customer reassurance.
- Available for immediate delivery, through the Parker global network.

# TOTAL SYSTEM HEALTH WITH PREVENTION

Filtration takes place in some of the world's most challenging and inaccessible environments, our products are used in different markets such as Forestry, Mining, Marine and renewable energy. Safety and environmental awareness is of great importance. Shut-downs can be costly, Parker Hydraulic Filtration technology provides the information and analysis that enables effective preventative maintenance and profitable, uninterrupted production.

Parker products contribute to a more sustainable world due to the possibility to choose products that prevent shut down and prolong the lifetime of products.

**Sustainability starts with you!**

In these challenging markets, staying ahead of the competition by using a proactive approach to maintenance is key. With issues such as extreme conditions, inspection challenges and workforce safety, on-line sensor and on-site testing technology provide an assured method of protecting assets and profits.

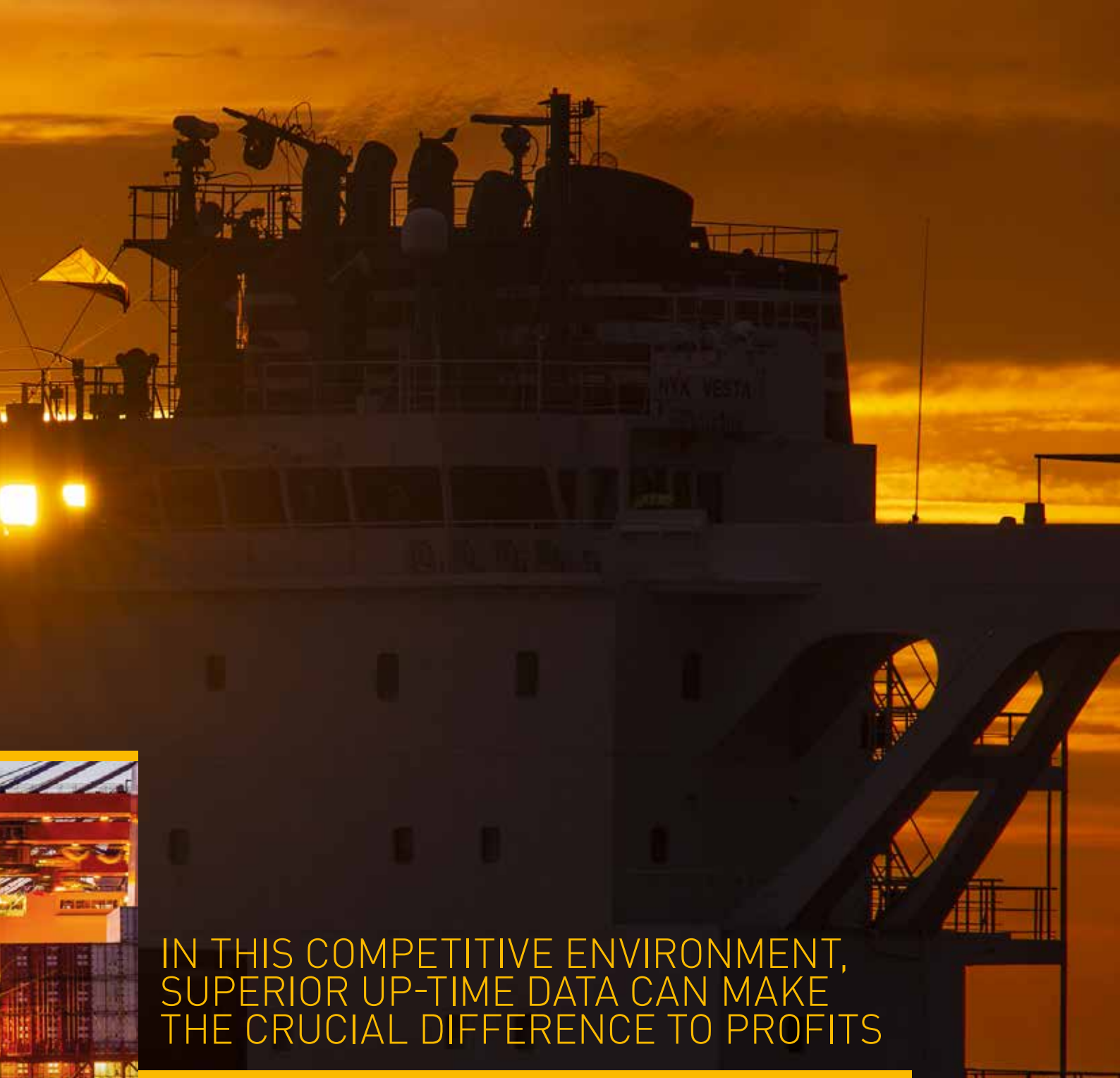
Selecting the correct filtration solution is vital to preserving the desired performance of your system. Preventing component deterioration or even failure depends on the initial quality of your filtration solution.

Parker is your single-source supplier to manage your TOTAL SYSTEM HEALTH



**DEDICATED  
FULL TIME  
FILTRATION  
SPECIALISTS**





## IN THIS COMPETITIVE ENVIRONMENT, SUPERIOR UP-TIME DATA CAN MAKE THE CRUCIAL DIFFERENCE TO PROFITS



The most up to date in filtration technology.

- Range of Low, Medium and High pressure filters
- Reliable, continuous quality of filtration.
- Easy maintenance through 'Clever design'.



# GLF iprotect® Series

## Tank Top Return Line Hydraulic Oil Filter



### Product Features

The GLF Series is a tank top return line hydraulic oil filter designed for high flow and long life between element change-outs. Maximum allowable flow 1700 l/min (845 GPM). Maximum allowable operating pressure 10.3 bar (150 psi) static.

- Patented iprotect® elements safeguard filtration quality.
- No recontamination of the system during the change of the element because of in-to-out filtration.
- Reduce energy consumption by filter head design.
- In-Tank mounted solutions are possible.
- Maximum performance with less weight and smaller envelope needed.
- A design that reduces service time by 50%.
- Pre-filtration with magnet column to extend element life.

### Technical Specification

**Maximum operating pressure:**

Max. 10 bar

**Seal material:**

Nitrile

**Operating temperature range:**

Seal material Nitrile: -40° to +100°C

**Bypass setting:**

Opening pressure 1.7 bar

**Filter housing:**

Aluminium head

Aluminium/reinforced polyamide cover

**Other options are available on request.**



Part Number	Flow l/min	Micron Rating	Connection	Indicator Port
GLF1110QIBP2GG12MF	80	10	G¾	Plugged
GLF1210QIBP2GG16MF	140	10	G1	Plugged
GLF2110QIBP2GG16MF	250	10	G1	Plugged
GLF2210QIBP2GG20MF	350	10	G1 ¼	Plugged
GLF3110QIBP2GG20MF	450	10	G1 ¼	Plugged
GLF3210QIBP2GG24MF	600	10	G1 ½	Plugged
GLF3310QIBP2GR32MF	750	10	SAE 2"-3000 M Flange	Plugged
GLF4110QIBP2GR40MF	800	10	SAE 2,5"-3000 M Flange	Plugged
GLF4210QIBP2GR40MF	1100	10	SAE 2,5"-3000 M Flange	Plugged
GLF4310QIBP2GR48MF	1700	10	SAE 3"-3000 M Flange	Plugged

## Spare parts & elements

Spare Elements (Nitrile)			Spare Elements (Nitrile)		
		Bypass 1.7 bar			Bypass 1.7 bar
Model	Media	Part Number	Model	Media	Part Number
GLF1 Length 1	02QI	944830Q	GLF4 Length 1	02QI	944886Q
	05QI	944832Q		05QI	944889Q
	10QI	944834Q		10QI	944892Q
	20QI	944836Q		20QI	944895Q
GLF1 Length 2	02QI	944831Q	GLF4 Length 2	02QI	944887Q
	05QI	944833Q		05QI	944890Q
	10QI	944835Q		10QI	944893Q
	20QI	944837Q		20QI	944896Q
GLF2 Length 1	02QI	944846Q	GLF4 Length 3	02QI	944888Q
	05QI	944848Q		05QI	944891Q
	10QI	944850Q		10QI	944894Q
	20QI	944852Q		20QI	944897Q
GLF2 Length 2	02QI	944847Q			
	05QI	944849Q			
	10QI	944851Q			
	20QI	944853Q			
GLF3 Length 1	02QI	944862Q			
	05QI	944865Q			
	10QI	944868Q			
	20QI	944871Q			
GLF3 Length 2	02QI	944863Q			
	05QI	944866Q			
	10QI	944869Q			
	20QI	944872Q			
GLF 3 Length 3	02QI	944864Q			
	05QI	944867Q			
	10QI	944870Q			
	20QI	944873Q			

Spare Parts	
Description	Part Number
Air Breather Sab.5101 (GLF2 only)	AB685101

Spare Indicators	
Description	1.2 bar setting P/N
G2 - Pressure Gauge	FMUG2EBPG02L
S1 - Pressure Switch 48V N.O.	LPSS1EBG02MRP1
S2 - Pressure Switch 48V N.C.	LPSS2EBG02MRP1
S6 - Pressure Switch 250V SPDT	LPSS6EBG02APCR1

# GMF iprotect® Series

## Medium Pressure in-line Filters



### Product Features

The 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).

- Patented iprotect® elements safeguard filtration quality.
- Element bowl design makes compact solutions possible.
- Making compact solutions possible, because the filter element remains in the filter bowl during service.
- Typically 50% reduction in waste with the reuseable element core.
- No risk of installation mistake due to a 'clever' design.
- Easy to integrate into hydraulic manifold solutions.

### Technical Specification

#### Maximum operating pressure:

Max. 70 bar

#### Seal material:

Fluoroelastomer.

#### Operating temperature range:

Seal material Fluoroelastomer: -20° to +120°C

#### Bypass Setting:

Opening pressure 3.5 bar.

#### Filter housing:

Head material aluminium. Bowl material hard anodized aluminium.

Other options are available on request.

### Ordering information

Part Number	Flow l/min	Micron Rating	Connection	Indicator Port
GMF2110QIVPKG164	55	10	G1	Plugged
GMF2210QIVPKG164	90	10	G1	Plugged
GMF3110QIVPKG244	120	10	G1 ½	Plugged
GMF3210QIVPKG244	230	10	G1 ½	Plugged
GMF4110QIVPKG324	350	10	G2	Plugged
GMF4210QIVPKG324	530	10	G2	Plugged

### Spare parts & elements

Spare Elements (Fluoroelastomer)		
Model	Media	Part Number
GMF 2 Length 1	02QI	938895Q
	05QI	938896Q
	10QI	938897Q
	20QI	938898Q
GMF 2 Length 2	02QI	938899Q
	05QI	938900Q
	10QI	938901Q
	20QI	938902Q
GMF 3 Length 1	02QI	938903Q
	05QI	938904Q
	10QI	938905Q
GMF 3 Length 2	20QI	938906Q
	02QI	938907Q
	05QI	938908Q
	10QI	938909Q
GMF 4 Length 1	20QI	938910Q
	02QI	938911Q
	05QI	938912Q
GMF 4 Length 2	10QI	938913Q
	20QI	938914Q
	02QI	938915Q
	05QI	938916Q
GMF 4 Length 2	10QI	938917Q
	20QI	938918Q

#### Spare Indicators

Description	2.5 bar setting P/N
M3 - Visual differential pressure indicator	FMUM3KVMS08
T1 - Electrical differential pressure switch	FMUT1KVMS08



# EPF iprotect® Series

Ecological High Pressure Filter

TOTAL SYSTEM HEALTH WITH  
**PREVENTION**

## Product Features



The 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 450 bar (6,500 psi).

- Designed with the iprotect® patented filtration technology.
- Making compact solutions possible. Because the filter element remains in the filter bowl during service.
- Typically 50% reduction in waste with the reuseable element core.
- No risk of installation mistakes due to a 'clever' design.
- Easy to integrate into hydraulic manifold solutions.

## Technical Specification

**Maximum operating pressure:**

Max. 450 bar

**Seal material:**

Nitrile

**Operating temperature range**

-40 °C to +100 °C

**Bypass setting:**

Opening pressure 7 bar.

**Filter housing:**

Head material cast iron (GSI)

Bowl material steel.

**Other options are available on request.**

## Spare parts & elements

Spare Elements		
Model	Media	Part Number
EPF 1 Length 1	02QI	944418Q
	05QI	944419Q
	10QI	944420Q
	20QI	944421Q
EPF 2 Length 1	02QI	944426Q
	05QI	944427Q
	10QI	944428Q
	20QI	944429Q
EPF 2 Length 2	02QI	944430Q
	05QI	944431Q
	10QI	944432Q
	20QI	944433Q

Spare Elements		
Model	Media	Part Number
EPF 3 Length 1	02QI	944434Q
	05QI	944435Q
	10QI	944436Q
	20QI	944437Q
EPF 3 Length 2	02QI	944438Q
	05QI	944439Q
	10QI	944440Q
	20QI	944441Q
EPF 4 Length 1	02QI	944442Q
	05QI	944443Q
	10QI	944444Q
	20QI	944445Q
EPF 4 Length 2	02QI	944446Q
	05QI	944447Q
	10QI	944448Q
	20QI	944449Q
EPF 5 Length 1	02QI	944450Q
	05QI	944451Q
	10QI	944452Q
	20QI	944453Q

## Ordering information

Part Number	Flow l/min	Micron Rating	Connection	Indicator Port
EPF1110QIBPMG081	40	10	G½	Plugged
EPF2110QIBPMG121	100	10	G¾	Plugged
EPF2210QIBPMG121	140	10	G¾	Plugged
EPF3110QIBPMG161	220	10	G1	Plugged
EPF3210QIBPMG161	250	10	G1	Plugged
EPF4110QIBPMG201	430	10	G1 ¼	Plugged
EPF4210QIBPMG201	450	10	G1 ¼	Plugged
EPF5110QIBPMG241	500	10	G1 ½	Plugged

Spare Indicators	
Model	5 bar setting P/N
M3 - Visual differential pressure indicator	FMUM3MVMS08
T1 - Electrical differential pressure switch	FMUT1MVMS08

# iprotect® Series

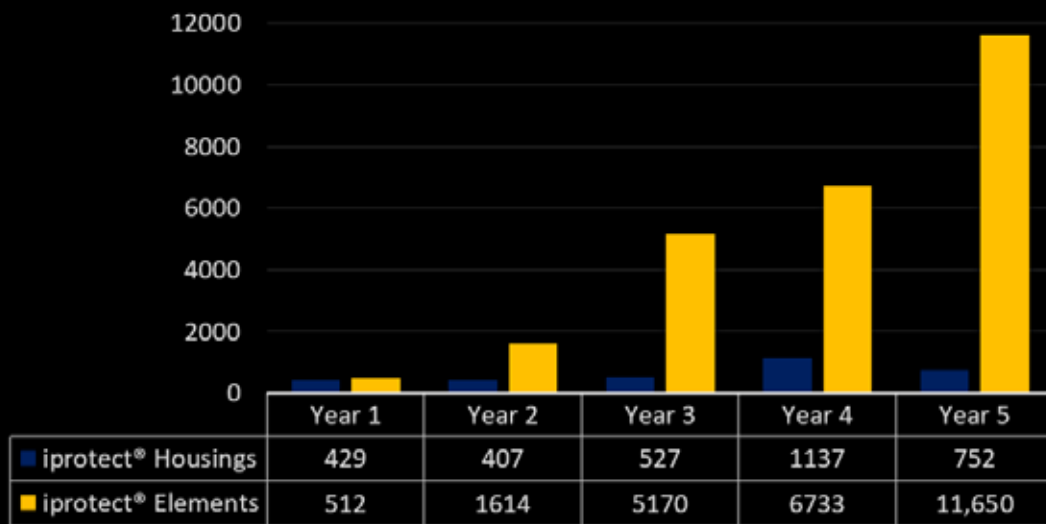
## What is iprotect®?

Patented protection to secure aftermarket business and maximize uptime by using genuine replacement elements.

The iprotect® range is designed to offer quality filtration solutions for hydraulic low, medium and high pressure systems, breaking new ground to reduce the cost of ownership by improving system productivity and profitability. Being challenged with the task to clean the oil and maintain the required cleanliness level, iprotect® acts as a protective DNA in each hydraulic circuit.

Strong patented design protects the customer after market and prevents the use of pirate type alternatives.

## iprotect® FILTER SALES



### Benefits for Parker partner

- Increase aftermarket share up to 95%
- Capture additional business
- Become a service and solution provider
- Increased turnover and profitability

### Benefits for end-user

- Guaranteed quality of filtration
- Maximum performance
- Extended service interval

### Protect your aftermarket

- Use the After Market Calculator tool ( Ask your Parker representative)
- Reduce warranty claims as a result of non genuine spare part quality

### Quantumfiber – innovation in filter media

#### New generation of filter media fiber structure supports:

- Extending filter element life time
- Improved filtration efficiency
- Reduced element pressure drop

# Triceptor

Dessicant breather

TOTAL SYSTEM HEALTH WITH  
**PREVENTION**



## Product Features

Triceptor desiccant air breathers prevent particulate matter and moisture from entering and damaging hydraulic systems. Silica gel desiccant has the highest removal capability by volume of any adsorption method. Indicates condition by changing color.

- Removes contamination, absorbs water in the fluid and reduces oil mist leaving the reservoir into the atmosphere.
- Easy to fit and disposable when the silica gel turns pink.
- Cost effective Triceptor breathers are suitable for a wide range of mobile and industrial applications.

## Technical Specification

### Materials:

Casing: Clarified copolymer polypropylene.

Cap: Copolymer polypropylene.

Stand pipe: PVC.

### Filtration Element:

Polyester, silica gel.

### Operating Temperatures:

-29°C to 121°C.

### Maximum Allowable Operating Pressure:

0.34 bar.

### Particle Removal Efficiency:

99.9% (beta 1000) @ 5.3 micron.

### Weight:

1.02 kg each.

## Ordering information

Part Number	Description	Connection
934332T	Desiccant breather	1" NPT

# Reservoir Equipment

## Environmental Air Breathers



### Product Features

EAB Series is an eco-friendly reservoir breather / air filter suited for a wide range of hydraulic system applications. Multiple filter media options available down to 1 micron abs. Designed for airflows up to 1500 l/min (396 GPM).

- EAB10: Airflow up to 1000 l/min.
- EAB20: Airflow up to 1500 l/min.
- High performance air breather to protect contamination from entering the tank.

### Technical Specification

#### Construction:

Glass reinforced composite housing with Eco-element.

#### Filter media options:

P020: High quality polyester media 2µm (abs)

C015: Polyester media with water-resistant layer, 1.5µm (abs).

Q010: Glass fibre media 1.0µm (abs).

Other options are available on request.

### Ordering information Spare parts & elements

Part Number	Pressure valve	Connection	Option	Spare Elements	
				Element Type	Part Number
EAB10P020HC73	none	6 hole fixing incl strainer		EAB10 2 micron polyester	EAC10P020
EAB10P020HC73V2	0.2 bar	6 hole fixing incl strainer		EAB10 1.5 micron water resistant	EAC10C015
EAB10P020HC73A	none	6 hole fixing incl strainer	Visual gauge	EAB10 1 micron fiberglass	EAC10Q010
EAB10P020GE16	none	G1		EAB20 2 micron polyester	EAC20P020
EAB10P020GE16V2	0.2 bar	G1		EAB20 1.5 micron water resistant	EAC20C015
EAB10P020GE16A	none	G1	Visual gauge	EAB20 1 micron fiberglass	EAC20Q010
EAB20P020HC73	none	6 hole fixing incl strainer			
EAB20P020HC73V2	0.2 bar	6 hole fixing incl strainer			
EAB20P020HC73A	none	6 hole fixing incl strainer	Visual gauge		
EAB20P020HC73V2A	0.2 bar	6 hole fixing incl strainer	Visual gauge		
EAB20P020GE16	none	G1			
EAB20P020GE16V2	0.2 bar	G1			
EAB20P020GE16A	none	G1	Visual gauge		
EAB20P020GE16V2A	0.2 bar	G1	Visual gauge		

## Glass-filled Nylon, Spin On and Metal Breathers



### Product Features

The AB Series comprises a broad range of top-mounted breathers and filler breathers. The filler breathers protect hydraulic systems from airborne particle ingress, while allowing sufficient airflow into and out of the fluid reservoir.

- IP65 rated, non-corrodible glass-filled nylon range.
- Metal Pressurised and unpressurised range.
- Airflow upto 3000 l/min.

### Technical Specification

#### Construction Nylon Breathers:

IP65 Rated filler breathers (except the AB68118)  
Moulded in non-corrodible glass filled nylon combining strength with a light weight design.

#### Construction Metal Breathers:

Air breathers and filler breathers available in pressurised and unpressurised options.

Other options are available on request.

### Ordering information

Part Number	Description	Air Flow l/min	Micron Rating	Connection	Option
H00279003	Small Breather	100	10	1/2 BSPT	
AB683101	Nylon Breather	175	10	G ¼	
AB68118	Nylon Breather	185	10	3 hole fixing 41.3 mm	63.5 mm strainer
SAB.1562.10	Metal Breather	430	10	G ¾	
AB116310	Metal Breather	430	10	6 hole fixing 73 mm	
PAB.1730.10.5	Metal Breather	430	10	6 hole fixing 73 mm	Pressurized 0.35 bar
SPA.1731.10.5	Metal Breather	430	10	G ¾	Pressurized 0.35 bar
AB685101	Nylon Breather	450	10	G 3/8	
AB687101	Nylon Breather	510	10	G ¾	
AB98210011	Nylon Breather	620	10	single hole 63 mm	95 mm strainer
AB98810001	Nylon Breather	620	10	6 hole fixing 73 mm	
AB98810011	Nylon Breather	620	10	6 hole fixing 73 mm	95 mm strainer
AB98410101	Nylon Breather	620	10	G ¾	
H00834004	Spin On Breather	1700	10	G ¾	
H00834005	Metal Breather	3000	10	G ¼	



**We have created a world of on-line support services and tools that enable our partners to share our knowledge and expertise. It's an Intelligence-driven approach to foster opportunity and growth.**

#### **eLearning**

Develop your industry knowledge and learn about hydraulic filtration using our bespoke online training platform available in 5 languages English, Spanish, French Russian and German.

[www.elearning.parkerhfd.com](http://www.elearning.parkerhfd.com)

#### **Filter selector**

The Parker Filtration Filter Selector helps you to find and select Parker Hydraulic and lubrication filter products, on and off-line with a step by step selection system. Besides the selection of filters, product literature and filter converters are also available.

[www.filterselector.com](http://www.filterselector.com)

# THIS IS.. SUPPORT

Hydraulic  
Filtration



*Do you need help finding the right filtration solution?  
Please contact your Parker representative.*



# Fluid Level Measurement

TOTAL SYSTEM HEALTH WITH  
**PREVENTION**

Fluid level/temperature gauges



## Product Features

Reservoir equipment and tank accessories are designed to ensure the performance and reliability of hydraulic systems, including dual-purpose fluid / temperature gauges, capacitive level switches, and float level switches.

- 3 sizes of fluid level/temperature gauge.
- 2 hole mounting.
- 76mm, 127mm and 254mm mounting centres.
- A one-piece design, high-visibility viewing lens for added security.
- Moulded in shatterproof, transparent polyamide.

## Ordering information

Part Number	Description	Centres	Connection
FL69123	Level/temperature	76 mm	M12
FL69113	Level	76 mm	M12
FL69223	Level/temperature	127 mm	M12
FL69213	Level	127 mm	M12
FL69323	Level/temperature	254 mm	M12
FL69313	Level	254 mm	M12

# Suction Elements

In-tank suction strainers



## Product Features

The Parker SE Series comprises a range of suction elements / inbuilt tank filters. The elements are equipped with 125 micron rating abs steel wire mesh media and are capable of flows ranging from of 15 – 500 L/min (4 -132 GPM). A high quality range of suction elements designed to compliment a reservoir installation.

- Stainless steel media, 30% glass-filled nylon head and Zintec centre tube.
- Maximum working temperature 90°C.
- 125 micron filtration media.

## Ordering information

Part Number	Flow l/min	Connection	Length	Diameter
SE75111110	15	G ½	105.5 mm	46 mm
SE75221110	25	G ¾	109.5 mm	64 mm
SE75231210	50	G 1	139.5 mm	64mm
SE75351210	95	G 1½	140 mm	86 mm
SE75351310	130	G 1½	200 mm	86 mm
SE75361410	180	G 2	260 mm	86 mm
SE75461210	225	G 2	150 mm	150 mm
SE75471310	350	G 2 ½	212 mm	150 mm
SE75481410	500	G 3	272 mm	150 mm



### Product Features

Par Fit™ hydraulic oil filter replacement elements from Parker are available in stock, cost-effective and easy to order. Par Fit™ high-quality interchangeable elements protect your system to optimize maintenance in any hydraulic application.

### Product Description

With over 85,000 hydraulic oil filter replacement elements, Par Fit™ meets every customer need for reliability, availability and price. Every part is engineered to be fully interchangeable with the original element part and specified to perform with equivalent or superior standard. Par Fit elements conform to the latest ISO standards for manufacture and testing, ensuring that your oil filtration application is running safely.

Par Fit™ high-quality interchangeable filter elements are available for applications in virtually every sector. Specified and manufactured with Parker expertise, you have the guarantee of performance wherever they operate, be it in mining, forestry, marine, power generation, off highway, materials handling, steel, in-plant or wind power.

With Par Fit™, you can source replacement elements for every recognized manufacturer, quickly and easily, from one trusted source.

- Hydac
- Eaton (Internormen)
- Bosch Rexroth (Eppensteiner)
- Donaldson
- Pall
- Mahle
- Argo
- MP Filtri

and many more...

### Markets

- Mining, forestry, agriculture
- Marine
- Power generation, wind power
- Off highway construction
- Materials handling
- Industrial machinery, in-plant, pulp and paper
- Steel
- Bus and truck
- Military

### Features and Benefits

- High system efficiency
- Reduce downtime
- Stock availability
- Cost-effective

Manufacturer	Part Number	Parker P/N
Argo	P2.1217-12	PR4465
Argo	P2.1217-21	PR4466
Argo	P3.0510-02	PR4475
Argo	V2.0833-06	939973Q
Argo	V2.1217-08	PR4467
Argo	V2.1217-36	PR4468
Argo	V2.1260-26	939762Q
Argo	V3.0510-06	944075Q
Argo	V3.0510-08	944076Q
Argo	V3.0520-08	PR4476
Argo	V3.0607-06	PR4471
Argo	V3.0607-08	PR4472
Argo	V3.0617-06	940365Q
Argo	V3.0623-06	939764Q
Argo	V3.0723-08	944097Q
Argo	V3.0933-08	944098Q
Bosch Rexroth	2.0013 H10XL-A00-0-P	939775Q
Bosch Rexroth	2.0030 H10XL-A00-0-P	939747Q
Bosch Rexroth	2.460 H10XL-A00-0-P	939850Q
DIN Element	DIN0040D02QV	940512Q
DIN Element	DIN0040D05QHV	PR4520Q
DIN Element	DIN0040D05QV	PR4522Q
DIN Element	DIN0040D10QHV	PR4521Q
DIN Element	DIN0040D10QV	PR4523Q
DIN Element	DIN0040D20QHV	938249Q
DIN Element	DIN0040D20QV	939730Q
DIN Element	DIN0040R10QV	940502Q
DIN Element	DIN0063D05QHV	PR4524Q
DIN Element	DIN0063D05QV	PR4526Q
DIN Element	DIN0063D10QHV	PR4525Q
DIN Element	DIN0063D10QV	PR4527Q
DIN Element	DIN0063D20QV	938181Q
DIN Element	DIN0100D02QV	940516Q
DIN Element	DIN0100D05QHV	PR4528Q
DIN Element	DIN0100D05QV	PR4530Q
DIN Element	DIN0100D10QHV	PR4529Q
DIN Element	DIN0100D10QV	PR4531Q
DIN Element	DIN0100D20QHV	940537Q
DIN Element	DIN0100D20QV	938185Q
DIN Element	DIN0100R02QV	940508Q
DIN Element	DIN0100R05QV	PR4499
DIN Element	DIN0100R10QV	PR4500Q
DIN Element	DIN0100R20QV	PR4501Q
DIN Element	DIN0160D05QHV	PR4532Q
DIN Element	DIN0160D10QHV	PR4533Q
DIN Element	DIN0160D10QV	PR4535Q

Manufacturer	Part Number	Parker P/N
DIN Element	DIN0160D20QV	940519Q
DIN Element	DIN0160R05QV	PR4502Q
DIN Element	DIN0160R10QV	PR4503Q
DIN Element	DIN0160R20QV	PR4504Q
DIN Element	DIN0250D02QHV	940540Q
DIN Element	DIN0250D02QV	940520Q
DIN Element	DIN0250D05QHV	PR4536Q
DIN Element	DIN0250D05QV	PR4538Q
DIN Element	DIN0250D10QHV	PR4537Q
DIN Element	DIN0250D10QV	PR4539Q
DIN Element	DIN0250D20QV	940521Q
DIN Element	DIN0250R02QV	940510Q
DIN Element	DIN0250R05QV	PR4505
DIN Element	DIN0250R10QV	PR4506Q
DIN Element	DIN0250R20QV	PR4507Q
DIN Element	DIN0400D02QV	PR4542Q
DIN Element	DIN0400D05QHV	PR4540Q
DIN Element	DIN0400D05QV	940522Q
DIN Element	DIN0400D10QHV	PR4541Q
DIN Element	DIN0400D10QV	PR4543Q
DIN Element	DIN0400D20QV	940523Q
DIN Element	DIN0400R02QV	PR4508
DIN Element	DIN0400R05QV	PR4509Q
DIN Element	DIN0400R10QV	PR4510Q
DIN Element	DIN0400R20QV	PR4511Q
DIN Element	DIN0630D02QV	940524Q
DIN Element	DIN0630D10QV	940526Q
DIN Element	DIN0630R02QV	PR4512Q
DIN Element	DIN0630R05QV	PR4513
DIN Element	DIN0630R10QV	PR4514Q
DIN Element	DIN0630R20QV	PR4515Q
DIN Element	DIN1000R02QV	PR4516Q
DIN Element	DIN1000R05QV	PR4517Q
DIN Element	DIN1000R10QV	PR4518Q
DIN Element	DIN1000R20QV	PR4519Q
Donaldson	P163322	944012Q
Donaldson	P163542	944018Q
Donaldson	P164375	944022Q
Donaldson	P164378	944023Q
Donaldson	P164381	944024Q
Donaldson	P165569	944035Q
Donaldson	P165659	944036Q
Donaldson	P165675	944038Q
Donaldson	P173081	940135Q
Donaldson	P176565	944032Q
Donaldson	P176566	944033Q

## Hydraulic Replacement Elements

Manufacturer	Part Number	Parker P/N
Donaldson	P176567	944047Q
Donaldson	P550786	940359Q
Fleetguard	HF6098	940376Q
Fleetguard	HF6319	940371Q
Hydac	0030D003BN3HC	PR3031Q
Hydac	0030D005BN3HC	PR3032Q
Hydac	0030D010BN3HC	PR3033Q
Hydac	0030D020BN3HC	PR3034Q
Hydac	0030D010BH3HC	PR3037Q
Hydac	0060D003BN3HC	PR3056Q
Hydac	0060D005BN3HC	PR3057Q
Hydac	0060D010BN3HC	PR3058Q
Hydac	0060D020BN3HC	PR3059Q
Hydac	0060D003BH3HC	PR3064Q
Hydac	0060D005BH3HC	PR3065Q
Hydac	0060D010BH3HC	PR3066Q
Hydac	0110D003BN3HC	PR3085Q
Hydac	0110D005BN3HC	PR3086Q
Hydac	0110D010BN3HC	PR3087Q
Hydac	0110D020BN3HC	PR3088Q
Hydac	0110D003BH3HC	PR3093Q
Hydac	0110D005BH3HC	PR3094Q
Hydac	0110D010BH3HC	PR3095Q
Hydac	0110D020BH3HC	PR3096Q
Hydac	0160D003BN3HC	PR3114Q
Hydac	0160D005BN3HC	PR3115Q
Hydac	0160D010BN3HC	PR3116Q
Hydac	0160D020BN3HC	PR3117Q
Hydac	0160D010BH3HC	PR3124Q
Hydac	0240D003BN3HC	PR3143Q
Hydac	0240D005BN3HC	PR3144Q
Hydac	0240D010BN3HC	PR3145Q
Hydac	0240D020BN3HC	PR3146Q
Hydac	0240D005BH3HC	PR3152Q
Hydac	0240D010BH3HC	PR3153Q
Hydac	0240D020BH3HC	PR3154Q
Hydac	0330D010BN3HC	PR3174Q
Hydac	0330D020BN3HC	PR3175Q
Hydac	0330D010BH3HC	PR3182Q
Hydac	0330D020BH3HC	PR3183Q
Hydac	0660D005BN3HC	PR3202Q
Hydac	0660D010BN3HC	PR3203Q
Hydac	0660D020BN3HC	PR3204Q
Hydac	0660D003BH3HC	PR3209Q
Hydac	0660D005BH3HC	PR3210Q
Hydac	0660D010BH3HC	PR3211Q

Manufacturer	Part Number	Parker P/N
Hydac	0660D020BH3HC	PR3212Q
Hydac	0035D020BN3HC	937058Q
Hydac	0140D003BH3HC	937059Q
Hydac	0140D010BH3HC	937063Q
Hydac	0140D010BN3HC	937064Q
Hydac	0280D005BH3HC	937069Q
Hydac	0280D005BN3HC	937070Q
Hydac	0280D010BH3HC	937071Q
Hydac	0280D010BN3HC	937072Q
Hydac	0280D020BN3HC	937074Q
Hydac	0500D010BN3HC	937080Q
Hydac	0030R010BN4HC	938255Q
Hydac	0030R020BN4HC	938256Q
Hydac	0060R010BN4HC	938259Q
Hydac	0060R020BN4HC	938260Q
Hydac	0075R010BN4HC	938263Q
Hydac	0075R020BN4HC	938264Q
Hydac	0110R010BN4HC	938267Q
Hydac	0110R020BN4HC	938268Q
Hydac	0160R010BN4HC	938271Q
Hydac	0160R020BN4HC	938272Q
Hydac	0165R005BN4HC	938274Q
Hydac	0165R010BN4HC	938275Q
Hydac	0165R020BN4HC	938276Q
Hydac	0240R003BN4HC	938277Q
Hydac	0240R005BN4HC	938278Q
Hydac	0240R010BN4HC	938279Q
Hydac	0240R020BN4HC	938280Q
Hydac	0330R003BN4HC	938281Q
Hydac	0330R005BN4HC	938282Q
Hydac	0330R010BN4HC	938283Q
Hydac	0330R020BN4HC	938284Q
Hydac	0500R005BN4HC	938286Q
Hydac	0500R010BN4HC	938287Q
Hydac	0500R020BN4HC	938288Q
Hydac	0660R003BN4HC	938289Q
Hydac	0660R005BN4HC	938290Q
Hydac	0660R010BN4HC	938291Q
Hydac	0660R020BN4HC	938292Q
Hydac	0850R005BN4HC	938294Q
Hydac	0850R010BN4HC	938295Q
Hydac	0850R020BN4HC	938296Q
Hydac	0950R005BN4HC	938298Q
Hydac	0950R010BN4HC	938299Q
Hydac	0950R020BN4HC	938300Q
Hydac	1300R003BN4HC	938301Q



Manufacturer	Part Number	Parker P/N
Hydac	1300R005BN4HC	938302Q
Hydac	1300R010BN4HC	938303Q
Hydac	1300R020BN4HC	938304Q
Hydac	1700R010BN4HC	938307Q
Hydac	1700R020BN4HC	938308Q
Hydac	0095D010BN4HC	938309Q
Hydac	2600R003BN4HC	938310Q
Hydac	2600R005BN4HC	938311Q
Hydac	2600R010BN4HC	938312Q
Hydac	0990D010BN4HC	939742Q
Hydac	0185R010BN4HC	939782Q
Hydac	0075D020BN4HC	939787Q
Hydac	0800RK010BN4HC	939788Q
Hydac	0300RK010BN4HC	939950Q
Hydac	1320D005BN4HC	940066Q
Hydac	0480R010BN4HC	944060Q
Hydac	0270R010BN4HC	939957Q
Hydac	0201RK015BN4HC	939986Q
Hydac	0330D005BN3HC	PR3173Q
Hydac	0990D003V/LM484	939942Q
Hydac	0030D005BH3HC	PR3036Q
Hydac	0060D020BH3HC	PR3067Q
Hydac	0500R010BN4HC01203892	939895Q
Hydac	0060R003BN4HC	938257Q
Hydac	0500R003BN4HC	938285Q
Hydac	2600R020BN4HC	938313Q
Hydac	2600R010BN4HC-B4-KE50	939836Q
Hydac	0160D020BH3HC	PR3125Q
Hydac	0500D020BN3HC	937082Q
Hydac	0140D020BN3HC	937066Q
Hydac	0330D003BN3HC	PR3172Q
Hydac	0210R010BN4HC	939878Q
Hydac	1300R010BN4HC/KB	939869Q
Hydac	0140D005BN3HC	937062Q
Internormen	01.E 120.10VG.16.S.P	940391Q
Internormen	01.E 120.25VG.16.S.V	939723Q
Internormen	01.E 170.10VG.30.E.V	938232Q
Internormen	01.E 170.10VG.HR.E.V	938172Q
Internormen	01.E 175.3VG.16.E.P	940070Q
Internormen	01.E 210.10VG.16.S.V	938188Q
Internormen	01.E 210.25VG.16.S.V	938189Q
Internormen	01.E 30.10VG.30.E.V	938244Q
Internormen	01.E 320.10VG.16.S.V	938168Q
Internormen	01.E 320.25VG.16.S.V	938169Q
Internormen	01.E 360.10VG.30.E.V	938220Q
Internormen	01.E 360.10VG.HR.E.V	938176Q
Internormen	01.E 425.10VG.16.S.V	938192Q

Manufacturer	Part Number	Parker P/N
Internormen	01.E 425.6VG.16.S.V	938191Q
Internormen	01.E 450.10VG.HR.E.V	938216Q
Internormen	01.E 60.10VG.HR.E.P	940151Q
Internormen	01.E 600.10VG.HR.E.P	940152Q
Internormen	01.E 631.10VG.16.S.V	938212Q
Internormen	01.E 631.25VG.16.S.V	938213Q
Internormen	01.E 631.3VG.16.E.P	940052Q
Internormen	01.E 631.6VG.16.E.P	940053Q
Internormen	01.E 90.10VG.HR.E.V	938240Q
Internormen	01.E 90.25VG.HR.E.V	938241Q
Internormen	01.E 950.10VG.10.S.V	939725Q
Internormen	01.NBF25-40.3VL.B.P	938251Q
Internormen	01.NBF55-85.3VL.B.P	938252Q
Internormen	01.TS625.25VG.B	940071Q
Mahle	852125SMX10	939735Q
Mahle	852264MIC25	939956Q
Mahle	852436SM25	PR4376Q
Mahle	852519MIC10	937106Q
Mahle	852519SML	937107Q
Mahle	852690SM10	937108Q
Mahle	852760SM10	937109Q
Mahle	PI1005MIC25	PR2829Q
Mahle	PI1030MIC25	PR2861
Mahle	PI1115MIC10	PR2852
Mahle	PI2108SMX3	PR2838Q
Mahle	PI2130SMX3	PR2862Q
Mahle	PI2208SMXVST3	PR2841Q
Mahle	PI2230SMXVST3	PR2865Q
Mahle	PI3105SMX10	PR2831Q
Mahle	PI3108SMX10	PR2839Q
Mahle	PI3111SMX10	PR2847Q
Mahle	PI3115SMX10	PR2855Q
Mahle	PI3130SMX10	PR2863Q
Mahle	PI3145SMX10	PR2871Q
Mahle	PI3205SMXVST10	PR2834Q
Mahle	PI3208SMXVST10	PR2842Q
Mahle	PI3211SMXVST10	PR2850Q
Mahle	PI3230SMXVST10	PR2866Q
Mahle	PI3245SMXVST10	PR2874Q
Mahle	PI4105SMX25	PR2832Q
Mahle	PI4108SMX25	PR2840Q
Mahle	PI4111SMX25	PR2848Q
Mahle	PI4115SM25	PR2856Q
Mahle	PI4130SMX25	PR2864Q
Mahle	PI4205SMXVST25	PR2835Q
Mahle	PI4208SMXVST25	PR2843Q
Mahle	PI4211SMXVST25	PR2851Q

## Hydraulic Replacement Elements

Manufacturer	Part Number	Parker P/N
Mahle	PI4245SMXVST25	PR2875Q
Mahle	PI8330DRG40	940030Q
Mahle	PI8430DRG60	939841Q
Mahle	PI8508DRG100	940042Q
Mahle	PI8530DRG100	940028Q
Mann and Hummel	BF-1018/1	939332Q
Mann and Hummel	H-15111/2	939338Q
Mann and Hummel	H-20211	939335Q
Mann and Hummel	H-25444	939334Q
Mann and Hummel	H-28545	939336Q
Mann and Hummel	P-19185	939337Q
MP Filtri	CU025A25VN	943796Q
MP Filtri	CU040A25VN	943800Q
MP Filtri	CU100A10VN	943803Q
MP Filtri	CU100A25VN	943804Q
MP Filtri	CU200A25VN	943808Q
MP Filtri	CU250A06VN	943810Q
MP Filtri	CU250A10VN	943811Q
MP Filtri	CU250A25VN	943812Q
MP Filtri	CU350A10VN	943815Q
MP Filtri	CU630A10VN	943819Q
MP Filtri	CU630A25VN	943820Q
MP Filtri	HP0371A03VN	938321Q
MP Filtri	HP0371A10VN	938323Q
MP Filtri	HP0371A25VN	938324Q
MP Filtri	HP0372A10VN	938327Q
MP Filtri	HP0372A25VN	938328Q
MP Filtri	HP0651A10VH	943615Q
MP Filtri	HP0651A10VN	938331Q
MP Filtri	HP0651A25VN	938332Q
MP Filtri	HP0652A03VN	938333Q
MP Filtri	HP0652A10VH	943619Q
MP Filtri	HP0652A10VN	938335Q
MP Filtri	HP0652A25VN	938336Q
MP Filtri	HP0653A10VN	938339Q
MP Filtri	HP0653A25VN	938340Q
MP Filtri	HP1351A10VN	938343Q
MP Filtri	HP1351A25VN	938344Q
MP Filtri	HP1352A10VH	943631Q
MP Filtri	HP1352A10VN	938347Q
MP Filtri	HP1352A25VN	938348Q
MP Filtri	HP1353A10VH	943635Q
MP Filtri	HP1353A10VN	938351Q
MP Filtri	HP3201A10VN	938355Q
MP Filtri	HP3202A06VN	938358Q
MP Filtri	HP3202A10VH	943643Q
MP Filtri	HP3202A10VN	938359Q

Manufacturer	Part Number	Parker P/N
MP Filtri	HP3202A25VN	938360Q
MP Filtri	HP3203A10VH	943647Q
MP Filtri	HP3203A10VN	943502Q
MP Filtri	HP3204A10VH	943651Q
MP Filtri	HP3204A10VN	943506Q
MP Filtri	MF0301A10VN	943705Q
MP Filtri	MF0301A25VN	943706Q
MP Filtri	MF1001A10VN	943709Q
MP Filtri	MF1001A25VN	943710Q
MP Filtri	MF1002A03VN	943711Q
MP Filtri	MF1002A10VN	943713Q
MP Filtri	MF1002A25VN	943714Q
MP Filtri	MF1002P25NV	943748Q
MP Filtri	MF1003A10VN	943717Q
MP Filtri	MF1003A25VN	943718Q
MP Filtri	MF1003P10NV	943749Q
MP Filtri	MF1801A10VN	943721Q
MP Filtri	MF1801A25VN	943722Q
MP Filtri	MF1801P10NV	943751Q
MP Filtri	MF1802A10VN	943725Q
MP Filtri	MF4001A10VN	943729Q
MP Filtri	MF4001A25VN	943730Q
MP Filtri	MF4002A10VN	943733Q
MP Filtri	MF4002A25VN	943734Q
MP Filtri	MF4003A10VN	943737Q
MP Filtri	MF4003A25VN	943738Q
MP Filtri	MF7501A10VN	943741Q
MP Filtri	MF7501A25VN	943742Q
MP Filtri	MR1001A25V	938320Q
MP Filtri	MR1002A10V	943880Q
MP Filtri	MR1003A10V	943888Q
MP Filtri	MR1003A25V	943889Q
MP Filtri	MR1004A10V	943896Q
MP Filtri	MR1004A25V	943897Q
MP Filtri	MR2502A10V	943912Q
MP Filtri	MR2502A25V	943913Q
MP Filtri	MR2503A10V	943920Q
MP Filtri	MR2503A25V	943921Q
MP Filtri	MR2504A10V	943928Q
MP Filtri	MR2504A25V	943929Q
MP Filtri	MR6302A10V	943944Q
MP Filtri	MR6302A25V	943945Q
MP Filtri	MR6303A10V	943952Q
MP Filtri	MR6303A25V	943953Q
MP Filtri	MR6304A10V	943960Q
MP Filtri	MR6304A25V	943961Q
Palfinger	EA1412ORG	940278Q

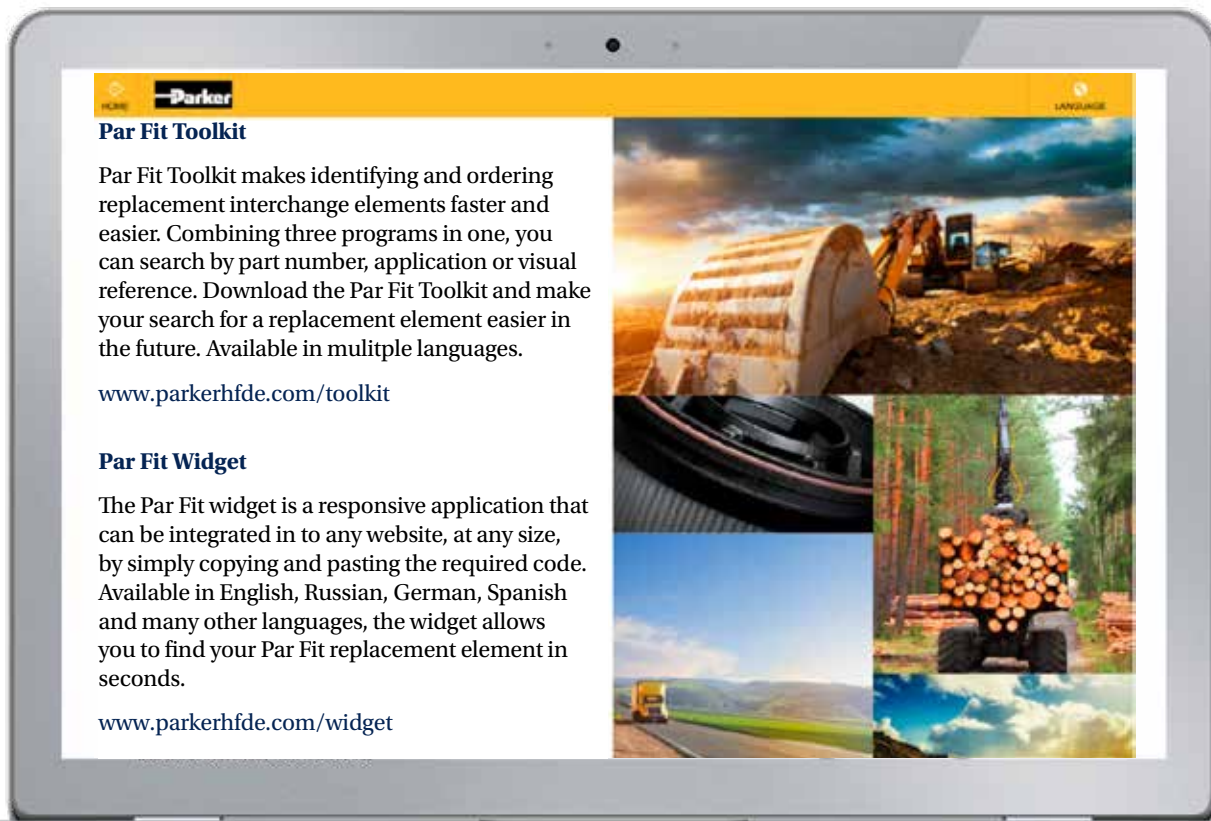


Manufacturer	Part Number	Parker P/N
Pall	HC0008FKP11H	940166Q
Pall	HC6200FKN8H	938159Q
Pall	HC6200FKS8H	938160Q
Pall	HC6300FKS26H	937125Q
Pall	HC8300FKN16H	PR2798Q
Pall	HC8300FKN39H	932873Q
Pall	HC8300FKN8H	927861Q
Pall	HC8300FKP16H	PR3455Q
Pall	HC8300FKP39H	932872Q
Pall	HC8300FKS16H	PR3456Q
Pall	HC8300FKS39H	932874Q
Pall	HC8300FKT16H	933047Q
Pall	HC8300FKT39H	932875Q
Pall	HC8300FKT8H	929099Q
Pall	HC8304FKN16H	937165Q
Pall	HC8304FKP16H	937167Q
Pall	HC8304FKP39H	937168Q
Pall	HC8304FKT39H	937172Q
Pall	HC8314FKP13H	940386Q
Pall	HC8314FKS16H	937169Q
Pall	HC8314FKS39H	937170Q
Pall	HC8400FKS16H	933777Q
Pall	HC8400FKS26H	933228Q
Pall	HC8400FKT16H	933763Q
Pall	HC8500FKN13H	935176
Pall	HC8500FKP13H	935175
Pall	HC8700FKS4H	PR4455Q
Pall	HC8700FKS8H	PR4459Q
Pall	HC8700FKT4H	PR4456Q
Pall	HC8700FKT8H	PR4460Q
Pall	HC8900FKP13H	933202Q
Pall	HC8900FKP26H	933218Q
Pall	HC8900FKS16H	933212Q
Pall	HC8900FKS26H	933220Q
Pall	HC8900FKT39H	937183Q
Pall	HC8900FKT8H	933196Q
Pall	HC9020FKN4H	933239Q
Pall	HC9020FKN8H	933246Q
Pall	HC9020FKP4H	925582Q
Pall	HC9020FKP8H	925602Q
Pall	HC9020FKS4H	925580Q
Pall	HC9020FKS8H	925600Q
Pall	HC9020FKT8H	PR3446Q
Pall	HC9021FKP4H	927725Q
Pall	HC9021FKP8H	927723Q
Pall	HC9021FKT4H	928642Q
Pall	HC9021FKT8H	928643Q

Manufacturer	Part Number	Parker P/N
Pall	HC9100FKN13H	944094Q
Pall	HC9100FKN8H	938163Q
Pall	HC9100FKP13H	944093Q
Pall	HC9100FKS8H	938164Q
Pall	HC9100FKT13H	944096Q
Pall	HC9104FKP13H	939964Q
Pall	HC9400FKT26H	933258Q
Pall	HC9600FKN13H	926845Q
Pall	HC9600FKN16H	926890Q
Pall	HC9600FKN4H	926841Q
Pall	HC9600FKN8H	926843Q
Pall	HC9600FKP13H	926698Q
Pall	HC9600FKP16H	926699Q
Pall	HC9600FKP4H	PR3435Q
Pall	HC9600FKP8H	PR3436Q
Pall	HC9600FKS13H	926839Q
Pall	HC9600FKS16H	926888Q
Pall	HC9600FKS4H	PR3437Q
Pall	HC9600FKS8H	PR3438Q
Pall	HC9600FKT13H	930162Q
Pall	HC9600FKT16H	930164Q
Pall	HC9600FKT4H	PR3440Q
Pall	HC9600FWT13H	937186Q
Pall	HC9601FKP13H	927182Q
Pall	HC9601FKP8H	927176Q
Pall	HC9601FKT13H	927181Q
Pall	HC9601FKT16H	928142Q
Pall	HC9604FKP13H	937197Q
Pall	HC9604FKP8H	937200Q
Pall	HC9604FKS16H	937202Q
Pall	HC9604FKT8H	937208Q
Pall	HC9650FKS13H	937213Q
Pall	HC9650FKT8H	933295Q
Pall	HC9700FKS18H	932679Q
Pall	HC9700FKS27H	933488Q
Pall	HC9700FKS9H	932670Q
Pall	HC9800FKN4H	930197Q
Pall	HC9800FKN8H	930198Q
Pall	HC9800FKP4H	930189Q
Pall	HC9800FKP8H	930192Q
Pall	HC9800FKS4H	930190Q
Pall	HC9800FKS8H	930193Q
Pall	HC9800FKT4H	930191Q
Pall	HC9800FKT8H	930194Q
Pall	HC9801FKS4H	937222Q
Pall	UE219AN04Z	940401Q
Pall	UE219AN08Z	940405Q

## Hydraulic Replacement Elements

Manufacturer	Part Number	Parker P/N
Pall	UE219AN13Z	940409Q
Pall	UE219AP13Z	940408Q
Pall	UE219AS04Z	940402Q
Pall	UE219AS08Z	940406Q
Pall	UE219AS13Z	940410Q
Pall	UE219AT04Z	940403Q
Pall	UE219AT08Z	940407Q
Pall	UE319AN13Z	940421Q
Pall	UE319AP08Z	940416Q
Pall	UE319AP13Z	940420Q
Pall	UE319AP40Z	940428Q
Pall	UE319AS13Z	940422Q
Pall	UE319AS20Z	940426Q
Pall	UE319AT20Z	940427Q
Pall	UE619AN20Z	940433Q





## **Parker Cleanliness services**

Profitability starts with clean components!

**"Over 80% of system failure is due to contamination, we introduce a service to analyze the cleanliness level of system components,,**

Do you know Parker Filtration also provides the following services?

- Analysis of the component cleanliness level.
- Analysis of hydraulic and lubrication fluids.
- Analysis of filters and filter elements.

Parker Filtration measures the cleanliness level of system components in accordance to ISO 16232.

# **Let's start Clean!**

- Prevent failure of system components by defining target cleanliness levels and frequent validation if these targets are met.
- Achieving lower cost of manufacturing by introducing control of components cleanliness levels.
- System performance does not rely on luck.

**Contact your Parker Sales Representative to start clean!**

# TOTAL SYSTEM HEALTH WITH TREATMENT

With Parker's global network and a long-term commitment to R&D excellence, our solutions provide you with the confidence to invest in the very best systems and products in your industry.

As filtration technology specialist, Parker delivers the most advanced, reliable and cost-effective treatment solutions for across fleets, capital equipment and machinery.

Clean, cool and dry systems contribute to increased production throughput as well as machine reliability and longer fluid life. Treatment products can extend the life of your fluid beyond routine drain and change intervals as well as dramatically reduce waste and cost.

- Expert treatment solutions for demanding applications.
- Easy to use, state-of-the-art systems, providing information, insight, and analysis for oil and fuel condition, continuous emissions, and acoustic emissions monitoring.
- Reducing the time and cost of maintenance, minimising unplanned stoppages, and ensuring efficient performance over the equipment lifetime.

Find out more about our range of treatment solutions at  
[parker.com](http://parker.com)



# 10MFP Series

Portable Filtration Trolley

TOTAL SYSTEM HEALTH WITH  
**TREATMENT**



## Product Features

The 10MFP Series portable filter cart is a mobile filtration device that removes free water\* and contaminants from hydraulic fluid. Capable of pre-filtering and transferring fluid at 38 l/min. Available with optional iCountPD online particle detector.

- 10MFP hydraulic trolley is the ideal way to pre-filter whilst transferring fluids into reservoirs or to clean up a system.
- \*Par-Gel water removal elements available.

## Technical Specification

### Product description:

Transfers fluid from drums or storage tanks

### Maximum Recommended Fluid Viscosity:

108 cSt

### Visual Indicator (outlet filter):

Visual differential type 3-band (clean, change, bypass)

### Filter Bypass Valve Settings

(Integral to Element):

Inlet: 0.2 bar

Outlet: 2.4 bar

### Flow Rate:

38 l/min

### Operating Temperature:

-40°C to +66°C

### Electrical Service Required:

240 volts, 60/50 Hz, single phase

### Electrical Motor:

¾ hp @ 3450 rpm, O.D.P.

Thermal overload protection

### Construction:

Cart frame – Steel

Filter head – Aluminum

Filter bowl – Steel

Hoses – PVC (Std.)

Wands – PVC (Std.)

### Weight:

45.4kg

## Ordering information

Part Number	Inlet element	Outlet element	Electrical plug
10MFP140SA10Q1EUR	40µ synthetic	10µ Fibreglass	EUR
10MFP140SA10Q1UK	40µ synthetic	10µ Fibreglass	UK

Spare Parts	Description
940971Q	Replacement (inlet) element: Fibreglass, 20 micron
940802	Replacement (inlet) element: Synthetic, 40 micron
940803	Replacement (inlet) element: Wire mesh, 40 micron
937397Q	Replacement (outlet) element: Fibreglass, 2 micron
937398Q	Replacement (outlet) element: Fibreglass, 5 micron
937399Q	Replacement (outlet) element: Fibreglass, 10 micron
937400Q	Replacement (outlet) element: Fibreglass, 20 micron
940734	Replacement (outlet) element: Water removal

# TOTAL SYSTEM HEALTH WITH DIAGNOSIS

When you are working in tough, competitive environments, you need equipment you can trust, 100% of the time. World leading filtration from Parker Filtration enables you to operate with maximum efficiency and total confidence.

Left undetected, contamination leads to serious equipment degradation and failure. Covering marine, oil and gas, and industrial applications,

Parker filtration systems provide critical insight into the health of engines and machinery - identifying the smallest changes, and triggering intervention before minor issues develop into expensive problems.

With accurate information about oil and fuel, gas emissions and acoustic emissions, you can enjoy optimum performance, streamlined maintenance, improved reliability and extended operational lifetime. Altogether, it means less down-time, reduced cost and increased profitability.

**DIAGNOSIS – IMPROVING RELIABILITY, REDUCING COST**

Combining sensors and diagnostic tools with circuit filtration and off-line systems, machine operators receive real-time insight into changing system health. Fact based decisions are then made which improve up-time and minimise negative results to the bottom line.



GLOBAL  
CORPORATI



ON



TOTAL SYSTEM HEALTH  
AT SEA, OFF-SHORE,  
ON LAND

# WiFi iCount Oil Sampler (IOS)

Portable Particle Monitor – iCountOS



## Product Features

The iCountOS is a highly rugged portable particle monitor that can be used for measuring contamination levels in fuels and/or hydraulic fluids. Capable of operation online (direct connection to system) or offline (sampling from tank or reservoir).

- Compact, lightweight and robust - the portable IOS makes field analysis quick and easy.
- Direct sampling from a hydraulic reservoir, barrel, vehicle fuel tank; and tram high pressure online hydraulic systems.
- Completely self-contained - laser detection particle monitor, battery, pump, plus memory with web page generator for data download onto any PC or laptop, combined into a single unit.
- Precise, repeatable, reproducible results, real time detection of both particulates, down to 4 microns (c) and dissolved water.

## Technical Specification

### Working pressure range:

0 - 2.5 bar.

### with Pressure Reducing Valve:

2.5 to 350 bar.

### Working viscosity:

1-300 cSt.

### Flow range through IOS:

40-140 ml/minute; controlled at 60ml/min by IOS's internal pump.

### Fluid connection interface:

INLET: 6mm push-fit. DRAIN: 4mm push-fit.

### Ambient storage temperature for unit:

-40°C to +80°C;

### Moisture sensor:

Linear scale within the range 5%RH to 100%RH

### WiFi capability:

20 metres indoors

### Power requirement:

Supplied with regulated power supply.

## Ordering information

Part Number	Fluid Type	Calibration	Included
IOS1221EUR	Mineral	MTD	WiFi and online connection kit

Spare Parts	Description
SER.MISC.067	Verification fluid 2x 500ml



# icountPD - Particle Detector

Inline Particle Monitor

TOTAL SYSTEM HEALTH WITH  
**DIAGNOSIS**



## Product Features

The Parker iCountPD is a highly compact, permanently mounted laser detection particle monitor that enables continuous monitoring of contamination levels in hydraulic and fluid circuits. Capable of communicating results in ISO4406 / AS4059 or NAS1638.

- Independent monitoring of system contamination trends.
- Continuous performance for prolonged analysis.
- Visual indicators with power and alarm output warnings.
- Self diagnostic software.
- Cost effective solution to prolong fluid life and reduce machine downtime.

## Technical Specification

OLED display  
RS232, 4-20 mA

Set up and Data logging support software included.

Moisture % RH indicator included.

## Ordering information

Part Number	Fluid Type	Cable Connection
IPD12322230	Mineral	M12, 8 pin plug connector

Spare Parts	Description	Pressure Range
ACC6NN019	Flow Control Valve	10 - 300 bar
ACC6NN048	Flow Control Valve	2 - 15 bar

# System 20

Inline sensors and monitors



## Product Features

- Analogue monitor utilizes 3 dayglow gauges with protective cover.
- For use with all mineral oils, water and oil/water emulsions.
- Three sizes of inline sensors for pressures up to 420 bar.

## Ordering information

Part Number	Fluid Type	Flow Range l/min
STI0144100	Mineral	6 - 25
STI1144100	Mineral	20 - 100
STI2144100	Mineral	80 - 380

Part Number	Fluid Type	Flow reading	Description
STM6211110	Mineral	l/min	Analogue Monitor

# icountLCM20 (LCM)

## Portable Particle Monitor – iCount LaserCM



### Product Features

The iCount LaserCM is a portable particle monitor that enables field personnel to quickly and easily measure contamination levels in oil and hydraulic fluids. Notable features include ISO/NAS cleanliness reporting, data graphing, and a built-in printer.

- icountLCM20 is a proven answer to fluid system contamination monitoring.
- 2-minute test procedure.
- Multi-standard ISO, NAS and AS4059 cleanliness reporting.
- Data entry, data graphing and integral printer.
- 420 bar rated maximum pressure.

### How does icountLaserCM work?

The particles are measured by a photo diode that converts light intensity to a voltage output which is recorded against time.

As the particle moves across the window the amount of light intensity to a voltage is measured and recorded.

This 'voltage' lost relates directly to the area of the particle measured, is changed into a capacitance value.

This value is counted and stored in the icountLaserCM computer in one of its sizing channels according to particle size.

Readouts are displayed on the handheld LCD in the accepted ISO and NAS standards ready for hard copy printing or RS232 computer download.

The on-board computer allows storage of up to 300 test results.

### Ordering information

Part Number	Fluid Type	Calibration
LCM202022	Mineral	MTD calibrated

Spare Parts	Description
ACC6NE015	Printer Paper x 5 rolls
ACC6NE014	Printer Ribbon (x1)
SER.MISC.067	Verification fluid 2x 500ml
SPS2021	Single point sampler



### Product Features



- The Loflow Series comprises a range of inline mechanical flowmeters that provide visual indication of fluid flow in hydraulic systems. LoFlow, easy to read, large scale definition for precise measurement.
- The Easiflow line comprises a range of highly economical, inline mechanical flowmeters that provide visual indication of fluid flow in hydraulic systems. Easiflow, works in any plane, used for plant and equipment protection.
- The Flowline Series comprises a range of highly rugged inline mechanical flowmeters that provide visual indication of fluid flow in hydraulic systems. Flowline, oil and water calibrated flowmeters available in brass, insensitive to viscosity changes

### Technical Specification

#### Construction:

Loflow; Grillon TR55  
Easiflow; Glass filled Nylon  
Flowline; Brass body to BS 2874 CZ114.

#### Temperature Range:

Loflow to +60°C  
Easiflow +5°C to +80°C - Oil  
Easiflow +5°C to +60°C - Water  
Flowline -20°C to +90°C - Oil  
Flowline 0°C to +90°C - Water

#### Viscosity Range:

Easiflow; 10 to 200 cSt (oil)  
Flowline; 10 to 200 cSt (oil)

#### Accuracy:

Loflow ±2% typical  
Easiflow ±5% FSD  
Flowline ±5% FSD

#### Repeatability:

±1% FSD

### Ordering information

Description	Part Number	Fluid Type	Connection	Flow Rate l/min	Pressure	Switch Range
Loflow	LF802412	Water	¼ BSPT male	0.2 - 2.0	10 bar	N/A
Easiflow	EF7731111220	Water	1" BSPP female	2 - 30	10 bar	N/A
Easiflow	EF7731112220	Water	1" BSPP female	4 - 50	10 bar	N/A
Easiflow	EF7731111120	Oil	1" BSPP female	2 - 30	10 bar	N/A
Easiflow	EF7731110221	Water	1" BSPP female	1 - 15	10 bar	5 - 15
Easiflow	EF7731111221	Water	1" BSPP female	2 - 30	10 bar	5 - 30
Easiflow	EF7731110121	Oil	1" BSPP female	1 - 15	10 bar	5 - 15
Flowline	FM26122212	Oil	¼ BSPP female	0.5 - 4.5	350 bar	
Flowline	FM26122312	Oil	¼ BSPP female	1 - 9	350 bar	
Flowline	FM26222112	Oil	½ BSPP female	2 - 20	350 bar	
Flowline	FM26222122	Water	½ BSPP female	2 - 20	350 bar	
Flowline	FM26222222	Water	½ BSPP female	5 - 46	350 bar	
Flowline	FM26322112	Oil	¾ BSPP female	5 - 55	350 bar	
Flowline	FM26322212	Oil	¾ BSPP female	10 - 110	350 bar	
Flowline	FM26322222	Water	¾ BSPP female	10 - 110	350 bar	

# Fluid Condition Sensor (FCS)

Multi parameter Sensor



## Product Features

The Fluid Condition Sensor (FCS) is an online device designed for constant, real-time monitoring of critical fuel and oil parameters in hydraulic and marine applications, including conductivity, permittivity, moisture content, temperature, and pressure.

- Reduces machinery design complexity measured by a single sensor.
- Replaces stand-alone sensors and wiring complexity.
- Simplifies data handling and connections.
- One sensor offers multiple outputs.

## Technical Specification

### Fluid type:

Lubricating & Hydraulic Oils

### Measurement units:

AC conductivity (nS/m), Permittivity, Relative Humidity (%), Temp (°C), Pressure (Bar)

### Measurement range:

AC Conductivity : 0-999, (nS/m), Permittivity : 0-8, RH (0-100%), Temp (-20 to 110°C), Pressure (0-10Bar)

### Sensing technology:

3rd Party Humidity, Temperature and Pressure.  
Oil Condition – Capacitive

### Voltage:

10 - 32VDC

### Ambient operating temperature:

-20°C to +80°C

### Permitted fluid temperature:

-20°C to +100°C

### Maximum fluid pressure:

10 bar gauge (sustained and transitory)

### Ingress protection:

IP67

### Communications:

Modbus over RS485 (CAN capable, not yet implemented)

### Connection:

5-way, M12 connector

### Connection Port:

1/2" BSP

## Ordering information

Part Number	Fluid Type
FCS3111	Mineral/Synthetics

# DIGI Field Kit

Multiparameter test kit

TOTAL SYSTEM HEALTH WITH  
**DIAGNOSIS**



## Product Features

- Laboratory grade accuracy in a field deployable kit.
- State of the art digital analysis.
- Monitor combustion related debris and oxidation products.
- Easily understandable results.

## Technical Specification

### DIGI Combined Water in Oil/TBN Cell:

0.02 - 1%  
 200-1000ppm  
 0-10%  
 0-20%  
 0-100 TBN

### ECON Insolubles TEST:

Qualitative.

### ECON viscostick:

Go/No go.

### ECON TAN Test:

TAN 0-6.

## Ordering information

Part Number	Description
FGK1108PA	EasySHIP DIGI Field kit

Spare Part	Description
FGK2002PA	TBN reagent pack (50) tests
FGK2003PA	Electronic Insolubles reagent pack 50 tests
FGK2101PA	EasySHIP Water in Oil Reagent Pack 50 tests
FGK24743PA	Total Acid Number/TAN drop reagent pack 25 tests

# Low Range DIGI Water Kit

Water in oil measurement



## Product Features

Water in oil maintain and protect your equipment, whilst eliminating damage caused by water in oil. The DIGI water in oil test kit provides digital analysis and gives fast accurate results for easy monitor ing of trends.

- Prevent corrosion, cavitation or failure of machinery by detecting water in oil, before any damage occurs.
- Minimize instability of additive packages and damaging microbe growth by monitor ing oil.
- Fully portable use on-board or in the field, test cells are extremely robust, durable and easy to use.

## Technical Specification

### Range:

0.02 - 1%, 100 - 3000ppm, 0 - 10%

### Test time:

3 minutes

### Battery life time:

Five years

## Ordering information

Part Number	Description
FGK17032PA	Low Rang DIGI water kit

Spare Part	Description
FGK2101PA	EasySHIP Water in Oil Reagent Pack 50 tests

# Heated Viscometer

Oil analysis viscosity meter



## Product Features

The Heated Viscometer is a highly rugged and easy-to-use diagnostic device that provides accurate oil viscosity results in minutes for fast onsite maintenance decisions. Supplied in a compact case for maximum portability.

- Monitoring viscosity gives an early warning for a range of common problems.
- Test an even greater range of oils, by changing the viscosity index or density.
- Estimate the combustion performance (CCAI) of fuel oil.
- Heavy duty, robust equipment - ideal for long term use with rapid results.

## Technical Specification

### Range:

Calculated Viscosity at 40 °C, 50°C and 100 °C.

### Power:

110 to 240 AC 50/60 Hz

### Display:

8 Digit LED

## Ordering information

Part Number	Description
FGK1200PA	Oil Analysis viscosity meter (heated)

# Oil Check

Hand-held oil condition monitoring



## Product Features

The Oilcheck is a completely portable, battery-powered condition monitoring device that provides visual indication of oil quality by measuring and comparing the dielectric constant of new and used fluids. Battery life: >150 hours or 3000 tests.

- Oilcheck hand-held condition monitor provides a visual comparison between new and used oils.
- Numerical display shows positive or negative increase in dielectric.
- Optional protective rubberised sleeve.

## Ordering information

Part Number	Fluid Type	Calibration
OLK605	Mineral, synthetic	Storage capability

Spare Part	Description
ACC6NV001	Rubber protective sleeve



# Bearing Checker

Machinery Health Check (MHC) - Bearing Checker

TOTAL SYSTEM HEALTH WITH  
**DIAGNOSIS**



## Product Features

The MHC Bearing Checker is an innovative hand-held device that provides engineers with the capability to quickly and accurately analyze bearing condition and lubrication state. Allows for up to 1000 measurements between charges

- Acoustic emission measurement tool.
- Simple hand-held device to determine bearing condition & inadequate lubrication.
- Easy operation & instant problem detection.

## Technical Specification

### Display:

LCD, 2 lines by 8 characters.

### Distress® Display:

Numeric or Text

“OK” is below 10,

“Suspect” is between 10 - 15,

“Poor” is above 15.

### Reading in progress:

Flashing LED indicator (in addition to LCD display message).

### Non-Volatile Memory:

Shows last taken readings when unit is switched on.

## Ordering information

Part Number	Description
FGH11510PA	MHC Bearing Checker

### Auto Shut-Off:

Instrument auto switches off 30 seconds after last button press.

### Internal batteries:

NiMH rechargeable battery via micro USB port.

### Operating Temperature:

0°C to 65°C.

### Overall Dimensions:

98 mm x 62 mm x 34 mm.

(including magnetic sensing head)

### Weight:

225 gram.

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### US Product Information Centre

Toll-free number: 1-800-27 27 537

[www.parker.com](http://www.parker.com)

Your local authorized Parker distributor