



www.griffinfilter.com



FUEL FILTER / WATER SEPARATOR

Industrial Product Guide



About GRIFFIN GROUP

GRIFFIN group is a global provider of products and services for the filtration industry, utilizing proprietary technology developed from over 40 years of professional experience purifying petroleum-contaminated seawater. In 2003, GRIFFIN scientists developed **MICROBLOC[®]**, a revolutionary filtration technology, that is used exclusively in Griffin filtration systems. **MICROBLOC[®]** multi-grade filtration media elements have tested to be 99.8% effective in separating water from fuel and can remove solid contaminants as small as 2 microns in size.

Griffin manufactures its proprietary line of filtration systems as well as OEM/OES products in its own factory. This ISO 9001:2015 certified factory houses production lines for die casting, plastic injection and filtration product manufacturing. Griffin products include filter components, filter elements, as well as completed filters and water separator systems. Griffin's lab-tested filtration systems help save fuel, reduce maintenance costs, and prolong engine life.

To best serve its customers, Griffin has developed an international distribution network. Its filtration technology and support is available to customers worldwide. In 2016, Griffin has received ABS Type Approval by the American Bureau of Shipping for its MAS and GFS series of fully stainless steel fuel filter water separators. For more than 150 years, ABS has been at the forefront of marine safety.

Griffin filter includes Fuel Filters, Hydraulic Filters, Oil Filters and Air Filters under its sister brand iFIL. Griffin's flagship products, Fuel Filter Water Separators, are ideal for:

- Marine Engines or Powerplants
- Power Generators
- Fuel Storage Polishing
- Automotive Engines
- Construction / Earth Moving Equipment
- Agricultural / Forestry Equipment
- Biodiesel Applications

ESPECIALLY YOUR EQUIPMENT USING "COMMON RAIL ENGINES"

YOUR
FUEL FILTER
WATER SEPARATOR
SPECIALIST



MICROBLOC[®]
TECHNOLOGY



Griffin DISTRIBUTION NETWORK

GRIFFIN'S PRODUCTS ARE DISTRIBUTED IN OVER 50 COUNTRIES
AND 150 MAIN DISTRIBUTORS & CUSTOMERS.



AFRICA

Ghana | Nigeria | South Africa

MIDDLE EAST

Duhan | Egypt | Israel | Oman
Saudi Arabia | Turkey | U.A.E

EUROPE

Finland | France | Germany | Greece
Holland | Italy | Iceland | Norway
Poland | Russia | Switzerland
Sweden | Spain | UK | Ukraine

CENTRAL AND SOUTH AMERICA

Argentina | Brazil | Chile | Columbia
Ecuador | Mexico | Panama | Peru
Venezuela

NORTHERN AMERICA

Canada | USA

ASIA PACIFIC

Australia
Maldives
New Zealand
Tahiti

ASIA

Cambodia
China
India
Indonesia
Japan
Malaysia
Myanmar
Philippines
Singapore
South Korea
Thailand
Vietnam

MICROBLOC[®]
TECHNOLOGY



About GRIFFIN'S TECHNOLOGY

FOUR STAGE FILTRATION PROCESS:

GRIFFIN filters remove solid contaminants and separate water using a four stage process.

1. CENTRIFUGAL STAGE:

Larger solid contaminants and free water are separated.

2. COALESCING STAGE:

Smaller water droplets and solid contaminants are filtered out by **MICROBLOC**[®] multi-grade filtration media, causing them to coalesce together and fall into the collection bowl.

3. MICRO ACTION I STAGE:

Micro action filtration removes the smallest water droplets and solid contaminants from fuel.

4. MICRO ACTION II STAGE:

A second micro action filtration ensures nearly 100% pure fuel filtration.

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TECHNOLOGY



YACHT



About THE CLEAR ADVANTAGE

YOUR
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SPECIALIST

1. Separate Water From Fuel At 99.8% Efficiency

Water can cause injector nozzle and fuel pump corrosion, ending in equipment failure and downtime. Unfortunately, water vapor continuously condenses inside your fuel tank. Griffin Fuel Filter Water Separators eliminate this worry by removing water and other contaminants from your fuel supply. All Griffin Fuel Filter Water Separators use the same **MICROBLOC[®]** Multi-grade Filtration Media technology. In moisture content tests conducted by Productivity and Standard Board (PSB), Singapore on fuel samples taken from a fuel filter water separator employing **MICROBLOC[®]** Multi-grade Media, 99.8% effectiveness of water removal was found to be achieved of the fuel filter water separator (test report reference: 57S055941 dated 7 Dec 2005). For more details, please contact your product distributor or representative.

2. Remove Damaging Contaminants

Even small, nearly invisible particles can damage injectors and pumps, reducing fuel efficiency, robbing power, or worse. Each refuelling adds millions of tiny contaminants to your fuel system. **MICROBLOC[®]** filters protect your engine from solid contaminants by filtering particles down to 2 microns in size. Elements are available in 2, 10, and 30 micron ratings.

3. High Capacity

MICROBLOC[®] elements provide multi-layered filtration. Corrugated filtration media means more surface area to trap contaminants.

4. Longer Filter Life

MICROBLOC[®] elements do not require replacement as often as "will-fit" filter cartridges. Filtration efficiency is up to 10 times greater than conventional media.

5. Built to Last

Griffin Fuel Filter Water Separators are built to take on any filtration job. All Turbine Series filters are now available in marines come standard with S4 or S6 trim, Stainless Steel Hardware Equipped.



MICROBLOC[®]
TECHNOLOGY



About THE CLEAR ADVANTAGE

6. Easy To Replace

All **MICROBLOC**[®] replacement elements meet or exceed OEM specifications and are easy to replace without the use of special tools.

7. Enhance Engine Power

Griffin Fuel Filter Water Separators enhance engine performance and reliability. You will feel your engine is more powerful and smoother after you install Griffin filters. Griffin filters will give your engine longer life.

8. Reduce Fuel Consumption

A cleaner running engine runs more efficiently, and uses less fuel. With current fuel prices, no one can afford dirty fuel and poor performance.

9. Environment Friendly

Clean Fuel means cleaner exhaust. Griffin Filters reduce exhaust pollution more effectively than other similar products.

10. Best Performing, Most Cost-Effective Choice

Griffin Fuel Filter Water Separators are the right choice for fuel filtration. Relying on research, science, and technology, rather than marketing hype, Griffin can offer products that meet and exceed the leading brands at a competitive prices. Griffin filtration systems with **MICROBLOC**[®] are simply the best performing and most cost-effective choice for your filtration needs.

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WORKBOAT

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SPIN-ON



GP SERIES

G SERIES

TURBINE



BASIC
SERIES

MA SERIES



GGF SERIES

BOWL



MAC SERIES

MAS SERIES

FILTRATION SYSTEM PURIFIER/RECYCLER



GFS SERIES



MOBILE FILTER

DIE CASTING & PLASTIC INJECTION



DIE CASTING



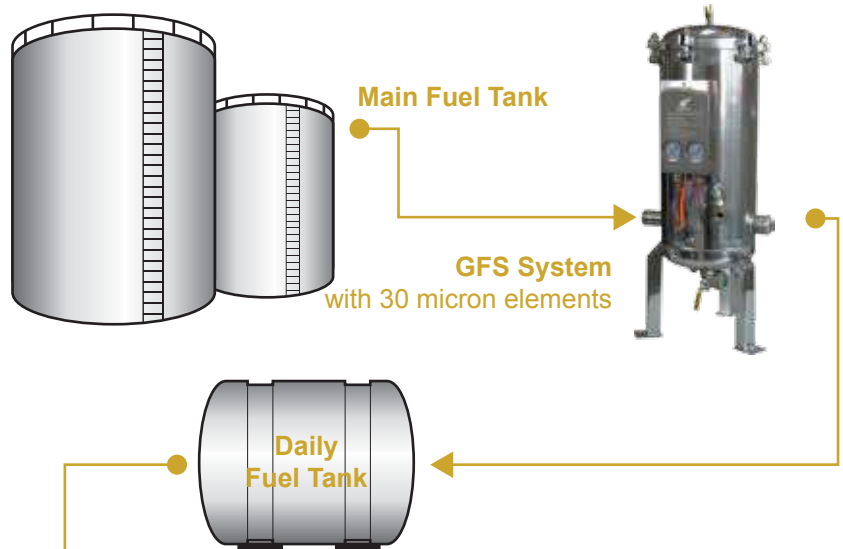
PLASTIC INJECTION



TYPICAL APPLICATIONS OF GRIFFIN

FUEL FILTER / WATER SEPARATOR SYSTEMS

PRIMARY STAGE FILTRATION



SECONDARY STAGE FILTRATION



FINAL STAGE FILTRATION

Griffin Fuel Filter / Water Separator
with 2 micron elements



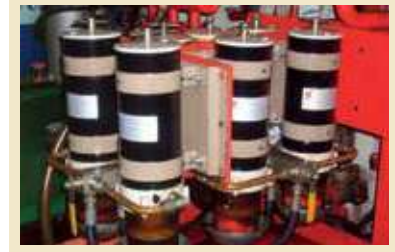
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TECHNOLOGY



Griffin COMPLETED PROJECTS

INDUSTRIAL



YOUR
FUEL FILTER
WATER SEPARATOR
SPECIALIST

MARINE



MICROBLOC[®]
TECHNOLOGY



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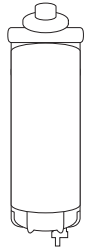
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Spin-on Series - GP460 / G460



GP460



Aluminum Integral Primer Pump



High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GP460
Fuel Port	3/4" - 16 SAE
Flow Rate	460 LPH / 122 GPH
Initial Clean Drop	9.7 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	381 mm
Width	124 mm
Net Weight	1.9 kg
Cross Reference	4120R
Replacement Element	G46-2 / G46-10 / G46-30 R120S / R120T / R120P / VOLVO 111683 / FS19591 / FS19754
Aluminum Head	PPH02-SP
Clear Bowl	PCB03-SP



G460



Aluminum Head



High Grade Clear Bowl



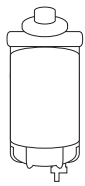
2 / 10 / 30 Micron Element

Model	G460
Fuel Port	3/8" NPT
Flow Rate	460 LPH / 122 GPH
Initial Clean Drop	9.7 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	360 mm
Width	116 mm
Net Weight	1.8 kg
Cross Reference	6120R
Replacement Element	G46-2 / G46-10 / G46-30 R120S / R120T / R120P / VOLVO 111683 / FS19591 / FS19754
Aluminum Head	PH-SP
Clear Bowl	PCB03-SP





Spin-on Series - GP341 / G341



GP341



Aluminum Integral Primer Pump

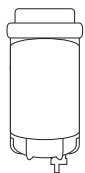


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GP341
Fuel Port	3/8" NPT
Flow Rate	341 LPH / 90 GPH
Initial Clean Drop	6.5 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	300 mm
Width	124 mm
Net Weight	1.7 kg
Cross Reference	490R
Replacement Element	G34-2 / G34-10 / G34-30 R90S / R90T / R90P / HINO-2340-1700 / FS19551 FS19532 / Mercedes Benz-A4570920001kZ
Aluminum Head	PPH-SP
Clear	PCB-SP / PCB-PK



G341



Aluminum Head



High Grade Clear Bowl

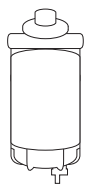


2 / 10 / 30 Micron Element

Model	G341
Fuel Port	3/8" NPT
Flow Rate	341 LPH / 90 GPH
Initial Clean Drop	6.5 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	280 mm
Width	116 mm
Net Weight	1.6 kg
Cross Reference	690R
Replacement Element	G34-2 / G34-10 / G34-30 R90S / R90T / R90P / HINO-2340-1700 / FS19551 FS19532 / Mercedes Benz-A4570920001kZ
Aluminum Head	PH-SP
Clear Bowl	PCB-SP / PCB-PK



Spin-on Series - GP227 / G227



GP227



Aluminum Integral Primer Pump

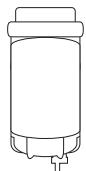


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GP227
Fuel Port	3/8" NPT
Flow Rate	227 LPH / 60 GPH
Initial Clean Drop	2.7 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	270 mm
Width	124 mm
Net Weight	1.6 kg
Cross Reference	460R
Replacement Element	G22-2 / G22-10 / G22-30 R60S / R60T / R60P / HINO-23401-1441 / 460R / FS19687 / FS1287
Aluminum Head	PPH-SP
Clear Bowl	PCB-SP / PCB-PK



G227



Aluminum Head



High Grade Clear Bowl



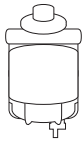
2 / 10 / 30 Micron Element

Model	G227
Fuel Port	3/8" NPT
Flow Rate	227 LPH / 60 GPH
Initial Clean Drop	2.7 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	255 mm
Width	116 mm
Net Weight	1.4 kg
Cross Reference	660R
Replacement Element	G22-2 / G22-10 / G22-30 R60S / R60T / R60P / HINO-23401-1441 / 460R / FS19687 / FS1287
Aluminum Head	PH-SP
Clear Bowl	PCB-SP / PCB-PK





Spin-on Series - GP170 / G170



GP170



Aluminum Integral Primer Pump

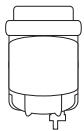


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GP170
Fuel Port	3/8" NPT
Flow Rate	170 LPH / 45 GPH
Initial Clean Drop	1.2 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	235 mm
Width	124 mm
Net Weight	1.4 kg
Cross Reference	445R
Replacement Element	G17-2 / G17-10 / G17-30 R45S / R45T / R45P / FS19734 / FS19775
Aluminum Head	PPH-SP
Clear Bowl	PCB-SP / PCB-PK



G170



Aluminum Head



High Grade Clear Bowl

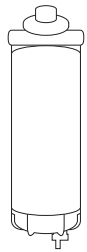


2 / 10 / 30 Micron Element

Model	G170
Fuel Port	3/8" NPT
Flow Rate	170 LPH / 45 GPH
Initial Clean Drop	1.2 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	215 mm
Width	116 mm
Net Weight	1.3 kg
Cross Reference	645R
Replacement Element	G17-2 / G17-10 / G17-30 R45S / R45T / R45P / FS19734 / FS19775
Aluminum Head	PH-SP
Clear Bowl	PCB-SP / PCB-PK



Spin-on Series - GP454 / G454



GP454



Aluminum Integral Primer Pump

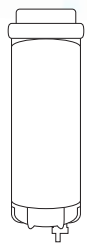


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GP454
Fuel Port	3/8" NPT
Flow Rate	454 LPH / 120 GPH
Initial Clean Drop	5.9 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	370 mm
Width	124 mm
Net Weight	1.9 kg
Cross Reference	VOLVO 1111068
Replacement Element	G45-2 / G45-10 / G45-30 FS19753
Aluminum Head	PPH-SP
Clear Bowl	PCB-SP / PCB-PK



G454



Aluminum Head



High Grade Clear Bowl



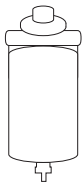
2 / 10 / 30 Micron Element

Model	G454
Fuel Port	3/8" NPT
Flow Rate	454 LPH / 120 GPH
Initial Clean Drop	5.9 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	350 mm
Width	116 mm
Net Weight	1.8 kg
Cross Reference	VOLVO 1111068
Replacement Element	G45-2 / G45-10 / G45-30 FS19753
Aluminum Head	PH-SP
Clear Bowl	PCB-SP / PCB-PK





Spin-on Series - GP360 / G360



GP360

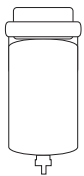


Aluminum Integral
Primer Pump



2 / 10 / 30 Micron
Element

Model	GP360
Fuel Port	3/8" NPT
Flow Rate	360 LPH / 95 GPH
Initial Clean Drop	6.5 kPa
Integral Primer Pump	Yes
Water Bowl	N/A
Height	280 mm
Width	124 mm
Net Weight	1.6 kg
Cross Reference	D638-002-04a
Replacement Element	G36-2 / G36-10 / G36-30 A3760927301KZ
Aluminum Head	PPH-SP



G360



Aluminum
Head



2 / 10 / 30 Micron
Element

Model	G360
Fuel Port	3/8" NPT
Flow Rate	360 LPH / 95 GPH
Initial Clean Drop	6.5 kPa
Integral Primer Pump	N/A
Water Bowl	N/A
Height	258 mm
Width	116 mm
Net Weight	1.5 kg
Cross Reference	D638-002-04a
Replacement Element	G36-2 / G36-10 / G36-30 A3760927301KZ
Aluminum Head	PH-SP



Spin-on Series - GP350 / G350



GP350



Aluminum Integral Primer Pump



High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GP350
Fuel Port	3/8" NPT
Flow Rate	360 LPH / 95 GPH
Initial Clean Drop	2.7 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	323 mm
Width	124 mm
Net Weight	1.7 kg
Cross Reference	A9794770015
Replacement Element	G35-2 / G35-10 / G35-30 Mercedes Benz Caminhoes 712, 912, 914, 1215C, 1720 Eletronico (A3844777015), 0700.131.005
Aluminum Head	PPH-SP
Clear Bowl	PCB-SP / PCB-PK



G350



Aluminum Head



High Grade Clear Bowl

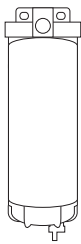


2 / 10 / 30 Micron Element

Model	G350
Fuel Port	3/8" NPT
Flow Rate	360 LPH / 95 GPH
Initial Clean Drop	2.7 kPa
Integral Primer Pump	Yes
Water Bowl	N/A
Height	301 mm
Width	116 mm
Net Weight	1.6 kg
Cross Reference	A9794770015
Replacement Element	G35-2 / G35-10 / G35-30 Mercedes Benz Caminhoes 712, 912, 914, 1215C, 1720 Eletronico (A3844777015), 0700.131.005
Aluminum Head	PH-SP
Clear Bowl	PCB-SP / PCB-PK



Spin-on Series - GP169 / GP114



GP169



Aluminium Integral Primer Pump

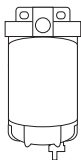


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GP169
Fuel Port	1/4"NPT / M14x1.5
Flow Rate	170 LPH / 45 GPH
Initial Clean Drop	4.21 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	325 mm
Width	103 mm
Net Weight	1 kg
Cross Reference	245R
Replacement Element	G16-2 / G16-10 / G16-30 / R25T / R25S / R25P
Aluminum Head	PPH104-SP
Clear Bowl	PCB02-SP



GP114



Aluminium Integral Primer



High Grade Clear Bowl

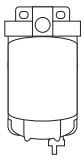


2 / 10 / 30 Micron Element

Model	GP114
Fuel Port	1/4NPT / M14x1.5
Flow Rate	114 LPH / 30 GPH
Initial Clean Drop	2.14 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	229 mm
Width	103 mm
Net Weight	0.9 kg
Cross Reference	230R
Replacement Element	G11-2 / G11-10 / G11-30 / R20T / R20S / R20P
Aluminum Head	PPH104-SP
Clear Bowl	PCB02-SP



Spin-on Series - GP60 / G370



GP60



Aluminium Integral Primer Pump

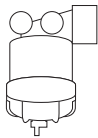


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GP60
Fuel Port	1/4" NPT / M14x1.5
Flow Rate	60 LPH / 16 GPH
Initial Clean Drop	0.83 kPa
Integral Primer Pump	Yes
Water Bowl	Yes
Height	215 mm
Width	103 mm
Net Weight	0.8 kg
Cross Reference	215R
Replacement Element	G6-2 / G6-10 / G6-30 R15T / R15S / R15P
Aluminum Head	PPH104-SP
Clear Bowl	PCB02-SP



G370



Aluminium Head

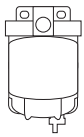


High Grade Clear Bowl

Model	G370
Fuel Port	ø10 inner diameter hose
Flow Rate	370 LPH / 98 GPH
Initial Clean Drop	2.9 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	240 mm
Width	153 mm
Net Weight	1.1 kg
Replacement Element	G37-2 / G37-10 / G37-30
Aluminum Head	PH111-SP
Clear Bowl	PCB37-SP



Spin-on Series - G57A / G57B



G57A



Aluminum Head

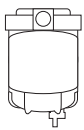


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	G57A
Fuel Port	1/4" NPT / M14x1.5
Flow Rate	57 LPH / 15 GPH
Initial Clean Drop	1.03 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	166 mm
Width	81 mm
Net Weight	0.5 kg
Cross Reference	120A
Replacement Element	G5-2 / G5-10 / G5-30 R12T / R12S / R12P
Aluminum Head	PH101-SP
Clear Bowl	PCB05-SP



G57B



Aluminium Head



High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	G57B
Fuel Port	1/4" NPT / M14x1.5
Flow Rate	57 LPH / 15 GPH
Initial Clean Drop	1.03 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	152 mm
Width	81 mm
Net Weight	0.5 kg
Cross Reference	140R
Replacement Element	G5-2 / G5-10 / G5-30 R12T / R12S / R12P
Aluminum Head	PH103-SP
Clear Bowl	PCB05-SP

Spin-on Series - **GBA100 / GBA70**



GBA100



Aluminum Head



High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GBA100
Fuel Port	14 x 1.5mm
Flow Rate	100 LPH / 27 GPH
Initial Clean Drop	206 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	188 mm
Width	102 mm
Net Weight	0.6 kg
Cross Reference	Balwin BF7537
Replacement Element	GBA10-2 / GBA10-10 / GBA10-30
Aluminium Head	PH110-SP
Clear Bowl	PCB07-SP



GBA70



Aluminum Head



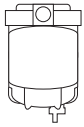
High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GBA70
Fuel Port	14 x 1.5mm
Flow Rate	70 LPH / 19 GPH
Initial Clean Drop	206 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	188 mm
Width	102 mm
Net Weight	0.6 kg
Cross Reference	Balwin BF7537
Replacement Element	GBA7-2 / GBA7-10 / GBA7-30
Aluminium Head	PH110-SP
Clear Bowl	PCB07-SP





GBA45



Aluminum Head



High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GBA45
Fuel Port	3/8" - 18
Flow Rate	45 LPH / 12 GPH
Initial Clean Drop	206 kPa
Integral Primer Pump	N/A
Water Bowl	Yes
Height	173 mm
Width	102 mm
Net Weight	0.5 kg
Cross Reference	Balwin BF825 / BF874
Replacement Element	GBA4-2 / GBA4-10 / GBA4-30 R12T / R12S / R12P
Aluminum Head	PH110-SP
Clear Bowl	PCB07-SP



GRE300



Aluminium Head



High Grade Clear Bowl



80 Micron Element

Model	GRE300
Gasoline / Diesel	Diesel
Vacuum Installation	Yes
Pressure Installation	N/A
Max. PSI / kPa	N/A
Max. Flow Rate	300 LPH / 80 GPH
No. of Ports	2
Height	230 mm
Width	140 mm
Weight	0.8kg
Port Size Standard	14 x 1.5mm
Clean Pressure Drop	103 kPa
Cross Reference	Renault VIX3 3-710-857
Replacement Element	GBE30-80 (washable)
Aluminum Head	PH112-SP
Clear Bowl	PCB-RE3



Parts

Common Parts for Spin-on Filters

Item	Code / Remark	Item	Code / Remark
	PPH-SP Head with AC pump for GP170, GP227, GP341, GP350, GP360, GP454 PPH02-SP Head with AC pump for GP460		PH-SP Head without pump for G170, G227, G341, G350, G360, G454
	PPH-MPL Head with AC pump for Mann Preline filter		PH107-SPP Head without AC pump for GGF502905, S3214
	PCB-SP Clear bowl for G170, G227, G341, G350, G454 and their GP Series		PCB02-SP Clear bowl for GP169, GP114, GP60, Racor B32001
	PCB03-SP Clear bowl for G460 and GP460		PCB04-SP Clear bowl for fleetguard FS1242
	PCB05-SP Clear bowl for G57A/B		PCB-MPL Clear bowl for mann filter PL420/PL270
	PCBHT-SP Clear bowl with heater for spin-on series, 12vdc / 24vdc		PHT-SP Middle heater for spin-on series, 12vdc / 24vdc



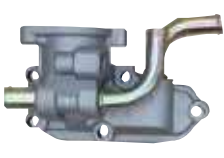


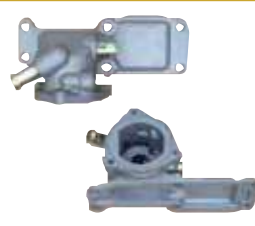
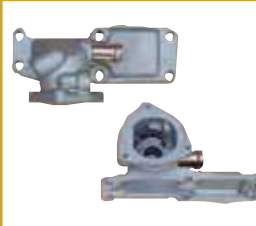
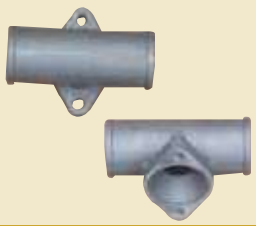
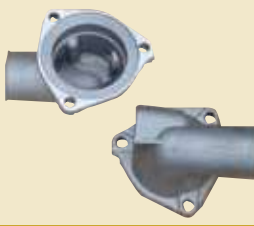




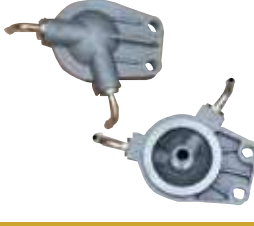
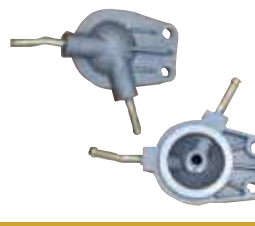
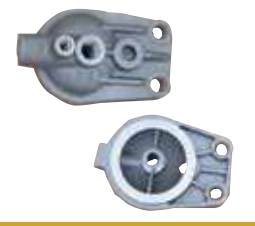








Other OEM Parts for Spin-on Filters

Aluminium Baffles / Seatings

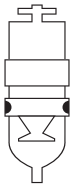
				
PAS-S	PAS-40	PAS-45	PAS-14	PAS-52

Aluminum Mounting Heads

				
PAP01	PAP02	PAP03	PAP04	PAP04-B
				
PAC01	PAC02	PAC03	PAC04	PAC05
				
PAC06	PAH01	PAH02	PAH03	PAHA01
				
PAHA02	PAHA03	PAHA04	PAHA05	PAHA06



Turbine Series - GTB228



GTB228



Steel Fittings

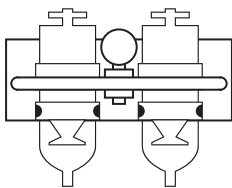


High Grade
Clear Bowl



2 / 10 / 30 Micron
Element

Model	GTB228
Fuel Port	3/4-16" UNF
Flow Rate	228 LPH / 60 GPH
Service Clearance	102 mm
Height	295 mm
Width	115 mm
Depth	122 mm
Net Weight	1.3 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	1.72 kPa
Max. Operating Pressure	103 kPa
Cross Reference	500FH
Replacement Element	GTB22-2 / GTB22-10 / GTB22-30 2010SM / 2010TM / 2010PM
Clear Bowl	PCB24-2GA



GTB228DM



Steel Fittings



High Grade
Clear Bowl



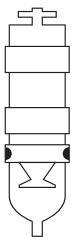
2 / 10 / 30 Micron
Element

Model	GTB228DM
Fuel Port	7/8-14" UNF
Flow Rate	454 LPH / 120 GPH
Service Clearance	102 mm
Height	292 mm
Width	472 mm
Depth	241 mm
Net Weight	6.9 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	4.83 kPa
Max. Operating Pressure	103 kPa
Heat Device	Optional Parameters
Water Probe	Optional Parameters
Cross Reference	75/500FHX
Replacement Element	GTB22-2 / GTB22-10 / GTB22-30 2010SM / 2010TM / 2010PM
Clear Bowl	PCB24-2GA





Turbine Series - GTB455



GTB455



Steel Fittings

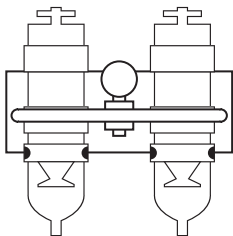


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GTB455
Fuel Port	3/4-16" UNF
Flow Rate	455 LPH / 120 GPH
Service Clearance	165 mm
Height	365 mm
Width	115 mm
Depth	122 mm
Net Weight	1.9 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	1.72 kPa
Max. Operating Pressure	103 kPa
Cross Reference	-
Replacement Element	GTB45-2 / GTB45-10 / GTB45-30
Clear Bowl	PCB24-2GA



GTB455DM



Steel Fittings



High Grade Clear Bowl

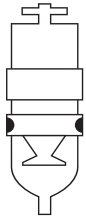


2 / 10 / 30 Micron Element

Model	GTB455DM
Fuel Port	7/8-14" UNF
Flow Rate	910 LPH / 240 GPH
Service Clearance	254 mm
Height	365 mm
Width	472 mm
Depth	241 mm
Net Weight	7.5 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	4.83 kPa
Max. Operating Pressure	103 kPa
Heat Device	Optional Parameters
Water Probe	Optional Parameters
Cross Reference	-
Replacement Element	GTB45-2 / GTB45-10 / GTB45-30
Clear Bowl	PCB24-2GA



Turbine Series - GTB341



GTB341



Steel Fittings

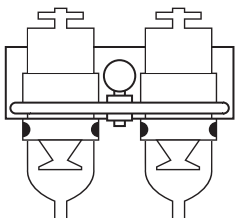


High Grade
Clear Bowl



2 / 10 / 30 Micron
Element

Model	GTB341
Fuel Port	7/8-16" UNF
Flow Rate	341 LPH / 90 GPH
Service Clearance	127 mm
Height	412 mm
Width	152 mm
Depth	178 mm
Net Weight	3 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	2.4 kPa
Max. Operating Pressure	103 kPa
Cross Reference	900FH
Replacement Element	GTB34-2 / GTB34-10 / GTB34-30 2040SM / 2040TM / 2040PM
Clear Bowl	PCB36-2GA



GTB341DM



Steel Fittings



High Grade
Clear Bowl



2 / 10 / 30 Micron
Element

Model	GTB341DM
Fuel Port	7/8-14" UNF
Flow Rate	681 LPH / 180 GPH
Service Clearance	127 mm
Height	412 mm
Width	472 mm
Depth	279 mm
Net Weight	10.6 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	11.7 kPa
Max. Operating Pressure	103 kPa
Heat Device	Optional Parameters
Water Probe	Optional Parameters
Cross Reference	75/900FHX / G900DM
Replacement Element	GTB34-2 / GTB34-10 / GTB34-30 2040SM / 2040TM / 2040PM
Clear Bowl	PCB36-2GA





Turbine Series - GTB681



GTB681



Steel Fittings

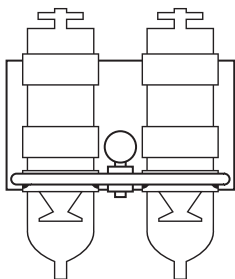


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GTB681
Fuel Port	7/8-16" UNF
Flow Rate	681 LPH / 180 GPH
Service Clearance	254 mm
Height	542 mm
Width	152 mm
Depth	178 mm
Net Weight	5 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	3.4 kPa
Max. Operating Pressure	103 kPa
Cross Reference	1000FH / G1000S4
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30 2020SM / 2020TM / 2020PM
Clear Bowl	PCB36-2GA



GTB681DM



Steel Fittings



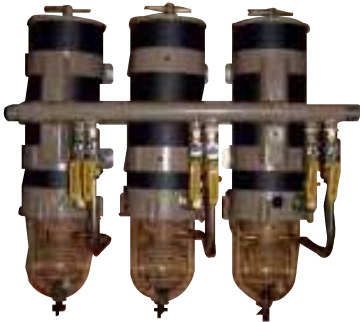
High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GTB681DM
Fuel Port	7/8-14" UNF
Flow Rate	1363 LPH / 360 GPH
Service Clearance	254 mm
Height	542 mm
Width	476 mm
Depth	279 mm
Net Weight	12.6 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	25.5 kPa
Max. Operating Pressure	103 kPa
Heat Device	Optional Parameters
Water Probe	Optional Parameters
Cross Reference	75/1000FHX / G1000DM
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30 2020SM / 2020TM / 2020PM
Clear Bowl	PCB36-2GA

Turbine Series - GTB681



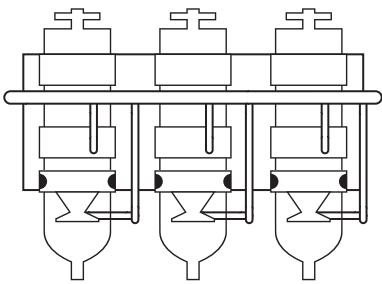
Steel Fittings



High Grade Clear Bowl



2 / 10 / 30 Micron Element



GTB681TM



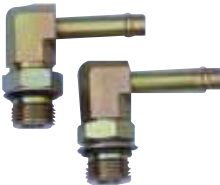
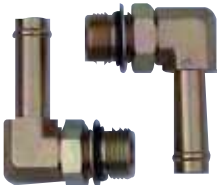


Model	GTB681TM
Fuel Port	3/4" NPT
Flow Rate	2043 LPH / 540 GPH
Service Clearance	254 mm
Height	542 mm
Width	476 mm
Depth	300 mm
Net Weight	25 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	25.5 kPa
Max. Operating Pressure	103 kPa
Heat Device	Optional Parameters
Water Probe	Optional Parameters
Cross Reference	79/1000FHX
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30 2020SM / 2020TM / 2020PM
Clear Bowl	PCB36-2GA





Turbine Series - Parts

Common Replacement Parts

Item	Code / Remark	Item	Code / Remark
	PCB24-2GA Clear bowl for GTB228 / GTB455 / 500FG		PCB36-2GA Clear bowl for GTB341 / GTB681 / 900FH / 1000FH
	PAU2436 Gauge for the valve of the double manifold turbine series		PAU2436H Gauge with handle for single marine turbine series
	PFBE24-0.37 Fittings for GTB228 / GTB455 / 500FG		PFBE36-0.5 Fittings for GTB341 / GTB681 / 900FH / 1000FH
	PSSK24 Sealing service kit for GTB228 / GTB455 / 500FG		PSSK36 Sealing service kit for GTB341 / GTB681 / 900FH / 1000FH

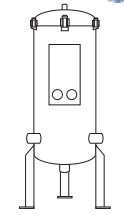
GFS Series - GS5000 & GFS3000DM Models



Fully Stainless Steel Assembly



30 Micron Element (One time use)



GFS5000

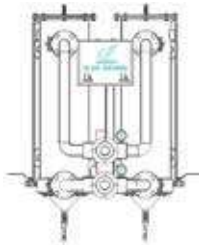
Model	GFS5000
Fuel Port	1-1/2" NPT
Flow Rate	5000 LPH / 1321 GPH
Filtration Material	Diesel
Operation Temperature	0°C / 46°C
Air Washing Pressure	0.4 MPa
Working Pressure	0.05 ~ 0.15 MPa
Weight	26 kg
Size (mm)	370 mm (Dia) x 936 mm (H)
Body Materials	Stainless Steel
Replacement Element	GFS-EW510 (3 unit) ~ 30 micron



Steel Assembly



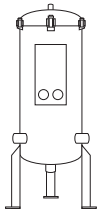
30 Micron Element (One time use)



GFS3000DM

Model	GFS3000DM
Fuel Port	2" (flange)
Flow Rate	6000 LPH / GPH
Filtration Material	Diesel
Operation Temperature	0°C / 46°C
Air Washing Pressure	0.04 MPa
Working Pressure	0.13 MPa
Weight	198 kg
Size (mm)	1350 mm (H) x 1075 mm (W) x 845 mm (D)
Body Materials	Steel
Replacement Element	GFS-EW300 (6 unit) ~ 30 micron

GFS & GLS Series - GLS5000 & GFS2800 Models



GLS5K



Fully Stainless Steel Assembly



80 Micron Element (Washable)

Model	GLS5K
Fuel Port	1-1/2" NPT
Flow Rate	5000 LPH / 1321 GPH
Filtration Material	Diesel / Gasoline / Lubricating / Hydraulic Oil
Operation Temperature	0°C / 46°C
Air Washing Pressure	0.4 MPa
Working Pressure	0.05 ~ 0.15 MPa
Weight	33 kg
Size (mm)	430 mm (Dia) x 970 mm (H)
Body Materials	Stainless Steel
Replacement Element	GLS-EW510 (3 unit) ~ 80 micron



GFS2800



Fully Stainless Steel Assembly



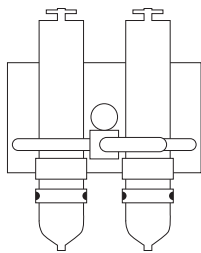
30 Micron Element (One time use)



80 Micron Element (Washable)

Model	GFS2800
Fuel Port	1-1/4" NPT
Flow Rate	2725 LPH / 720 GPH
Filtration Material	Diesel
Operation Temperature	-23°C ~ 82°C
Working Pressure	30PSI / 207kPa
Weight	16.3 kg
Size (mm)	907mm(h) x 225mm(w)
Body Materials	Stainless Steel
Replacement Element	GFS280-30 (1 unit) ~ 30 micron GFS280-80 (1 unit) ~ 80 micron

GFS Series - GFS2800 Models



GFS2800DM



Fully Stainless Steel Assembly

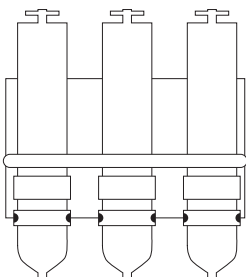


30 Micron Element (One time use)



80 Micron Element (Washable)

Model	GFS2800DM
Fuel Port	1-1/4" NPT
Flow Rate	5450LPH / 1440 GPH
Filtration Material	Diesel
Operation Temperature	-23°C ~ 82°C
Working Pressure	30PSI / 207kPa
Weight	21.9 kg
Size (mm)	907mm(h) x 680mm(w)
Body Materials	Stainless Steel
Replacement Element	GFS280-30 (2 unit) ~ 30 micron GFS280-80 (2 unit) ~ 80 micron



GFS2800TM



Fully Stainless Steel Assembly



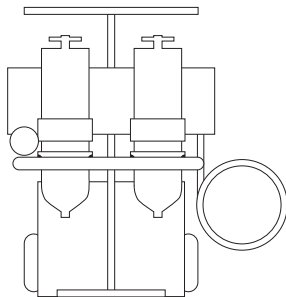
30 Micron Element (One time use)



80 Micron Element (Washable)

Model	GFS2800TM
Fuel Port	1-1/4" NPT
Flow Rate	8175 LPH / 2160 GPH
Filtration Material	Diesel
Operation Temperature	-23°C ~ 82°C
Working Pressure	30PSI / 207kPa
Weight	80 kg
Size (mm)	400(Dia) x 870(H)
Body Materials	Stainless Steel
Replacement Element	GFS280-30 (3 unit) ~ 30 micron GFS280-80 (3 unit) ~ 80 micron

Mobile Filter / Recycler / Blender - GMS1362 & GFS1362



GMS1362



Steel Fittings

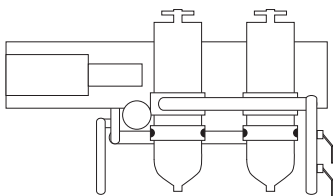


High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GMS1362
Fuel Port	1/2" NPT
Flow Rate	681 LPH / 180 GPH
Service Clearance	254 mm
Height	1168 mm
Width	590 mm
Depth	510 mm
Net Weight	42 kg
Temperature	-23°C / +82°C
Clean Pressure Drop	10.2 kPa
Max. Operating Pressure	-
Heat Device	Optional Parameters
Water Probe	Optional Parameters
Cross Reference	800D-5REC-D
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Clear Bowl	PCB36-2



GFS1362



Steel Fittings



High Grade Clear Bowl



2 / 10 / 30 Micron Element

Model	GFS1362
Fuel Port	1/2" NPT
Flow Rate	681 LPH / 180 GPH
Service Clearance	254 mm
Height	570 mm
Width	675 mm
Depth	270 mm
Net Weight	26 kg
Temperature	-23°C / +82°C
Clean Pressure Drop	8.5 kPa
Max. Operating Pressure	-
Heat Device	Optional Parameters
Water Probe	Optional Parameters
Cross Reference	800D-OF3
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Clear Bowl	PCB36-2



Die Casting Production Line

Griffin's factory is an ISO 9001:2015 certified factory. We have our own aluminum die casting production line. This production line produces all Griffin's filter die casting parts as well as the aluminum die casting parts for OEM's (Original Equipment Manufacturers) for their products.

From designs to finished products, we provide completed machining and deburring, as well as extensive secondary operations to provide our customers with finished parts conforming to the highest standards.

Other services we provide include:

- Molding
- Zinc Die Casting
- ZA Alloy Die Casting
- Machining
- Deburring
- CNC processing
- Brass Plating
- Chrome Plating
- Anodizing
- Painting
- Powder Paint



Plastic Injection Production Line

From small parts to large parts, besides product Griffin's filter plastic clear bowls, Griffin's plastic injection production line products include auto parts, engine parts, agricultural products, kitchen products, toys, tools, promotional products, home and office products, kitchenware and much more.





Conversion Table

Pressure	
0.1 Bar	= 1.45 psi
0.12 Bar	= 1.74 psi
0.5 Bar	= 7.25 psi
1 Bar	= 14.5 psi
2 Bar	= 29 psi
2.5 Bar	= 36.25 psi
3 Bar	= 43.4 psi
5 Bar	= 72.5 psi
10 Bar	= 145 psi
14 Bar	= 203 psi
20 Bar	= 290 psi
25 Bar	= 362.5 psi
30 Bar	= 435 psi
35 Bar	= 507.5 psi
40 Bar	= 580 psi
100 Bar	= 1450 psi
200 Bar	= 2900 psi
300 Bar	= 4350 psi
400 Bar	= 5800 psi

Length	
10 mm	= 0.39 inch
20 mm	= 0.79 inch
30 mm	= 1.18 inch
40 mm	= 1.57 inch
50 mm	= 1.97 inch
60 mm	= 2.36 inch
70 mm	= 2.76 inch
80 mm	= 3.15 inch
90 mm	= 3.54 inch
100 mm	= 3.94 inch
150 mm	= 5.91 inch
200 mm	= 7.87 inch
250 mm	= 9.84 inch
300 mm	= 11.81 inch
350 mm	= 13.78 inch
400 mm	= 15.72 inch
450 mm	= 17.72 inch
500 mm	= 19.69 inch

Flow Rate	
10 L/min	= 2.64 gpm
20 L/min	= 5.28 gpm
30 L/min	= 7.93 gpm
40 L/min	= 10.57 gpm
50 L/min	= 13.21 gpm
60 L/min	= 15.85 gpm
70 L/min	= 18.49 gpm
80 L/min	= 21.14 gpm
90 L/min	= 23.78 gpm
100 L/min	= 26.42 gpm
150 L/min	= 39.63 gpm
200 L/min	= 52.84 gpm
250 L/min	= 66.05 gpm
300 L/min	= 79.26 gpm
350 L/min	= 92.47 gpm
400 L/min	= 105.68 gpm
450 L/min	= 118.89 gpm
500 L/min	= 132.10 gpm
600 L/min	= 158.52 gpm
700 L/min	= 184.94 gpm
800 L/min	= 211.36 gpm
900 L/min	= 237.78 gpm
1000 L/min	= 264.20 gpm

Conversion in Temperature	
-30°C	= -22°F
-10°C	= 14°F
0°C	= 32°F
10°C	= 50°F
30°C	= 86°F
50°C	= 122°F
80°C	= 176°F
100°C	= 212°F
120°C	= 248°F

Conversion in Hour	
100 L/hr	= 26.42 gph
110 L/hr	= 29.06 gph
120 L/hr	= 31.70 gph
130 L/hr	= 34.35 gph
140 L/hr	= 36.99 gph
150 L/hr	= 39.63 gph
160 L/hr	= 42.27 gph
170 L/hr	= 44.91 gph
180 L/hr	= 47.56 gph
190 L/hr	= 50.20 gph
200 L/hr	= 52.84 gph
300 L/hr	= 79.26 gph
400 L/hr	= 105.68 gph
500 L/hr	= 132.10 gph
600 L/hr	= 158.52 gph
700 L/hr	= 184.94 gph
800 L/hr	= 211.36 gph
900 L/hr	= 237.78 gph
1000 L/hr	= 264.20 gph

Conversion in Volume	
100 mm ³	= 6.102 inch ³
200 mm ³	= 12.104 inch ³
300 mm ³	= 18.306 inch ³
400 mm ³	= 24.408 inch ³
500 mm ³	= 30.510 inch ³
600 mm ³	= 36.612 inch ³
700 mm ³	= 42.714 inch ³
800 mm ³	= 48.816 inch ³
900 mm ³	= 54.918 inch ³
1000 mm ³	= 61.020 inch ³
5000 mm ³	= 305.100 inch ³
10,000 mm ³	= 610.200 inch ³



Singapore

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