



www.griffinfilter.com



M A R I N E

FUEL FILTER / WATER SEPARATOR

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 30 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[®]** multigrade filtration media elements have tested to be 99.8% effective in separating water from diesel and bio-diesel fuels and can remove solid contaminants as small as 2 microns in size.

To best serve its customers, Griffin has developed an international distribution network. With Griffin group locations in Asia, Africa, the Middle East, Europe and the Americas, Griffin filtration technology and support is available to customers worldwide.

Griffin manufactures its proprietary line of filtration systems as well as several OEM/OES products in its own factory. This factory houses production lines for die casting, plastic injection and filtration product manufacturing. Griffin products include filter parts, 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.

GRIFFIN FUEL FILTER / WATER SEPARATORS ARE IDEAL FOR:

- MARINE ENGINES
- 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
 - Egypt | Israel | Oman
 - Saudi Arabia | U.A.E
- EUROPE
 - Finland | France | Germany | Greece
 - Holland | Italy | Iceland | Norway
 - Poland | Russia | Switzerland | Sweden
 - Spain | Turkey | UK | Ukraine
- SOUTHERN AMERICA
 - Argentina | Brazil | Chile | 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 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**[®] multigrade 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.

YOUR
FUEL FILTER
WATER SEPARATOR
SPECIALIST

MICROBLOC[®]
TECHNOLOGY



YACHT



About THE CLEAR ADVANTAGE

YOUR
FUEL FILTER
WATER SEPARATOR
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[®]** Multigrade 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[®]** Multigrade Media, 99.8% effectiveness of water removal was found to be achieved after 30 minutes of operation 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 don't need 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.

YOUR
FUEL FILTER
WATER SEPARATOR
SPECIALIST

MICROBLOC[®]
TECHNOLOGY



WORKBOAT

Griffin PRODUCT RANGE

YOUR
FUEL FILTER
WATER SEPARATOR
SPECIALIST

SPIN-ON



GP SERIES

G SERIES

TURBINE



BASIC S4
SERIES

MA SERIES



GGF SERIES

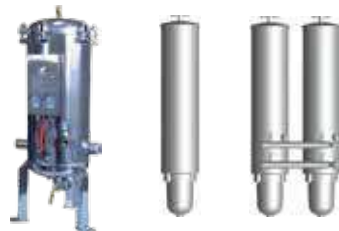
BOWL



MAC SERIES

MAS SERIES

GFS & GLS



GFS SERIES



GLS SERIES

DIE CASTING & PLASTIC INJECTION



DIE CASTING



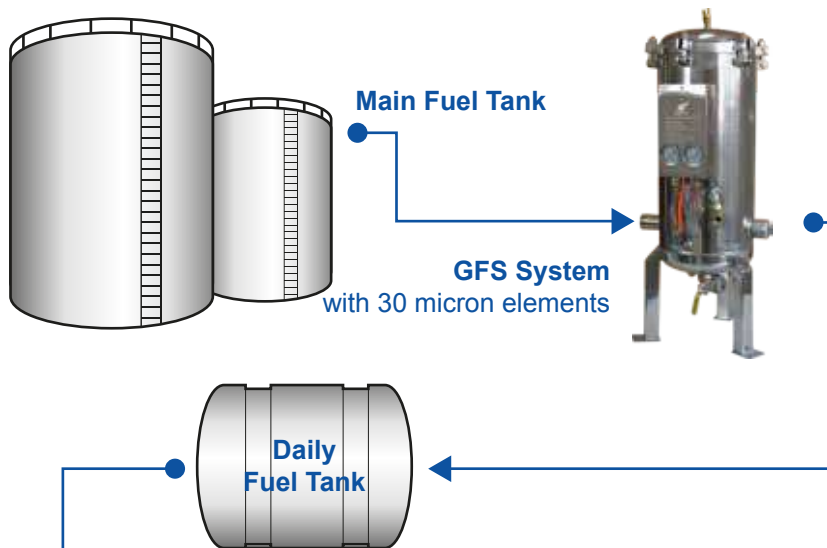
PLASTIC INJECTION



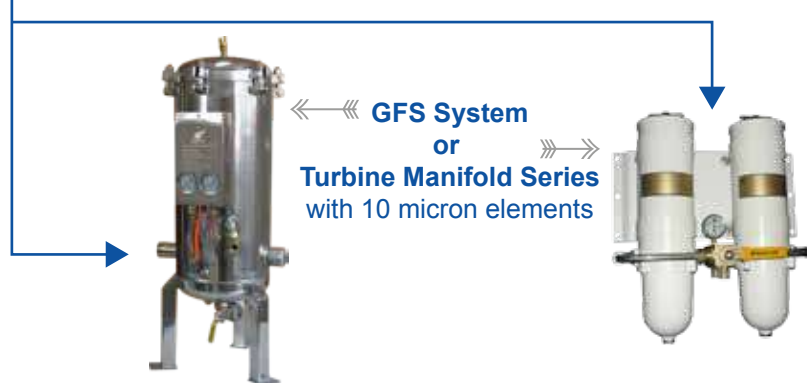
TYPICAL APPLICATIONS OF GRIFFIN

FUEL FILTER / WATER SEPARATOR SYSTEMS

PRIMARY STAGE FILTRATION



SECONDARY STAGE FILTRATION



FINAL STAGE FILTRATION

Griffin Fuel Filter / Water Separator with 2 micron elements



YOUR
FUEL FILTER
WATER SEPARATOR
SPECIALIST

MICROBLOC[®]
TECHNOLOGY

Griffin COMPLETED PROJECTS

FOR MARINE



YOUR
FUEL FILTER
WATER SEPARATOR
SPECIALIST

FOR INDUSTRIAL



CONTENTS

YOUR
FUEL FILTER
WATER SEPARATOR
SPECIALIST

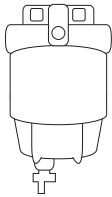
About Griffin Group		3
Griffin Distribution Network		4
About Griffin's Technology		5
About The Clear Advantage		6 - 7
Griffin Product Range		8
Typical Applications of Griffin		9
Griffin Completed Projects		10
Spin-on Series	GGF114 & GGF114MAC	12
	GGF227 & GGF227MAC	13
	GGF340 & GGF340MAC	14
	GGF454MAC	15
	GGF35 & GGF35MAC	16
	GGF502905 & GGF502905MAC	17
Turbine S4MA Series	GTB228S4MA Models (Single & Double Manifold)	18
	GTB455S4MA Models (Single & Double Manifold)	19
	GTB341S4MA Models (Single & Double Manifold)	20
	GTB681S4MA Models (Single, Double & Triple Manifold)	21 - 22
Turbine MAC Series	GTB228MAC Models (Single & Double Manifold)	23
	GTB455MAC Models (Single & Double Manifold)	24
	GTB341MAC Models (Single & Double Manifold)	25
	GTB681MAC Models (Single, Double & Triple manifold)	26 - 27
Turbine MAS Series	GTB228MAS Models (Single & Double Manifold)	28
	GTB455MAS Models (Single & Double Manifold)	29
	GTB341MAS Models (Single & Double Manifold)	30
	GTB681MAS Models (Single, Double & Triple Manifold)	31 - 32
GFS & GLS Series	GFS5000 Models (Single & Double Manifold)	33
	GLS5000	34
	GFS2800 Models (Single, Double & Triple Manifold)	34 - 35
Mobile Filter / Recycler Blender	GMS1362 & GFS1362	36
Die Casting & Plastic Injection	Die Casting Production Line	37
	Plastic Injection Production Line	37
Conversion Table		38



Spin-on Series - GGF114 / GGF114MAC



For Outboard Engines Only



GGF114



Aluminum Integral Primer Pump



High Grade Clear Bowl For Gasoline Use

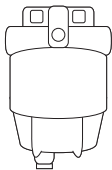


Element

Model	GGF114
Fuel Port	1/4-18NPTF
Flow Rate	114 LPH / 30 GPH
Center Threads	M18 x 1.5
Service Clearance	25.4 mm
Height	166 mm
Width	81 mm
Depth	81 mm
Net Weight	0.50 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	1.03 kPa
Max Pressure	7 PSI
Cross Reference / Element	120R-RAC-01 / S3240
Replacement Element	GGF11-10
Mounting Head	PH104-SPP
Clear Bowl For Gasoline Use	PCB05-SPGA



For Inboard & Outboard Engines



GGF114MAC



Aluminum Integral Primer Pump



High Grade Metal Bowl



Element

Model	GGF114MAC
Fuel Port	1/4-18NPTF
Flow Rate	114 LPH / 30 GPH
Center Threads	M18 x 1.5
Service Clearance	25.4 mm
Height	166 mm
Width	81 mm
Depth	81 mm
Net Weight	0.50 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	1.03 kPa
Max Pressure	7 PSI
Cross Reference / Element	120R-RAC-02 / S3240
Replacement Element	GGF11-10
Mounting Head	PH104-SPP
Metal Bowl	PMB05-SP

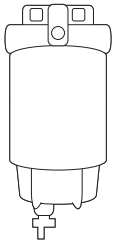




Spin-on Series - GGF227 / GGF227MAC



For Outboard Engines Only



GGF227



Aluminum Integral Primer Pump



High Grade Clear Bowl For Gasoline Use

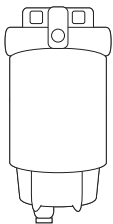


Element

Model	GGF227
Fuel Port	1/4-18NPTF
Flow Rate	227 LPH / 60 GPH
Center Threads	1-14
Service Clearance	25.4 mm
Height	238 mm
Width	102 mm
Depth	107 mm
Net Weight	0.90 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	4.23 kPa
Max Pressure	-
Cross Reference / Element	320R-RAC-01 / S3227
Replacement Element	GGF22-10
Mounting Head	PH105-SPP
Clear Bowl For Gasoline Use	PCB02-SPGA



For Inboard & Outboard Engines



GGF227MAC



Aluminum Integral Primer Pump



High Grade Metal Bowl



Element

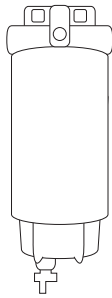
Model	GGF227MAC
Fuel Port	1/4-18NPTF
Flow Rate	227 LPH / 60 GPH
Center Threads	1-14
Service Clearance	25.4 mm
Height	238 mm
Width	102 mm
Depth	107 mm
Net Weight	1.20 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	4.23 kPa
Max Pressure	-
Cross Reference / Element	320R-RAC-02 / S3228UL
Replacement Element	GGF22-10
Mounting Head	PH105-SPP
Metal Bowl	PMB02-SP



Spin-on Series - GGF340 / GGF340MAC



For Outboard Engines Only



GGF340



Aluminum Integral Primer Pump



High Grade Clear Bowl For Gasoline Use

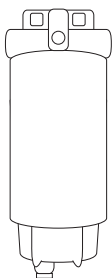


Element

Model	GGF340
Fuel Port	3/8-18NPTF
Flow Rate	340 LPH / 90 GPH
Center Threads	1-14
Service Clearance	25.4 mm
Height	280 mm
Width	106 mm
Depth	114 mm
Net Weight	1.40 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	4.23 kPa
Max Pressure	-
Cross Reference / Element	660R-RAC-01 / S3232
Replacement Element	GGF34-10
Mounting Head	PH105-SPP
Clear Bowl For Gasoline Use	PCB02-SPGA



For Inboard & Outboard Engines



GGF340MAC



Aluminum Integral Primer Pump



High Grade Metal Bowl



Element

Model	GGF340MAC
Fuel Port	3/8-18NPTF
Flow Rate	340 LPH / 90 GPH
Center Threads	1-14
Service Clearance	25.4 mm
Height	280 mm
Width	106 mm
Depth	114 mm
Net Weight	1.40 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	4.23 kPa
Max Pressure	-
Cross Reference / Element	660R-RAC-02 / S3232UL
Replacement Element	GGF34-10
Mounting Head	PH105-SPP
Metal Bowl	PMB02-SP





Spin-on Series - GGF454MAC



For Inboard & Outboard Engines



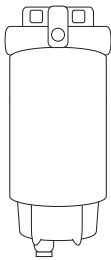
Aluminum Integral Primer Pump



High Grade Metal Bowl



Element



GGF454MAC

Model	GGF454MAC
Fuel Port	1/2-14NPTF
Flow Rate	454 LPH / 120 GPH
Center Threads	1-14
Service Clearance	25.4 mm
Height	264 mm
Width	102 mm
Depth	127 mm
Net Weight	0.90 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	1.03 kPa
Max Pressure	-
Cross Reference / Element	3120R-RAC-02 / S3232UL
Replacement Element	GGF34-10
Mounting Head	PH110-SPP
Metal Bowl	PMB02-SP



Spin-on Series - **GGF35 / GGF35MAC**



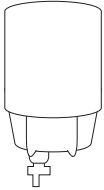
For
Outboard
Engines
Only



High Grade Clear Bowl
For Gasoline Use



Element



GGF35-805269-1B

Model	GGF35-805269-1B
Flow Rate	227 LPH / 60 GPH
Center Threads	11/16"-16
Service Clearance	25.4 mm
Height	171 mm
Width / Depth	95 Diameter
Net Weight	0.54 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	4.23 kPa
Cross Reference	Racor B32013 / Aquapower 6001 / Baldwin BF791 / Yamaha ABA-FUEL-FLTR / Quicksilver 35-807172 / Wix 33225 / Sierra 18-7845
Cross Element	S3213
Replacement Element	GGF35-805269-1
Mounting Head	PH106-SPP
Clear Bowl For Gasoline Use	PCB02-SPGA



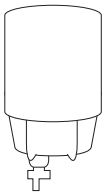
For
Inboard
& Outboard
Engines



High Grade
Metal Bowl



Element



GGF35-805269-1B-MAC

Model	GGF35-805269-1B-MAC
Flow Rate	227 LPH / 60 GPH
Center Threads	11/16"-16
Service Clearance	25.4 mm
Height	171 mm
Width / Depth	95 Diameter
Net Weight	0.54 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	4.23 kPa
Cross Reference	Racor B32020MAM / Aquapower 6031 / Yamaha MAR-23452-00-00 / Volvo 855686-0/-2 / Quicksilver 35-60494-1 / Sierra 1807850
Cross Element	S3220
Replacement Element	GGF35-805269-1
Mounting Head	PH106-SPP
Metal Bowl	PMB02-SP





Spin-on Series - GGF502905 / GGF502905MAC



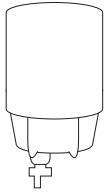
For Outboard Engines Only



High Grade Clear Bowl For Gasoline Use



Element



GGF502905B

Model	GGF502905B
Flow Rate	227 LPH / 60 GPH
Center Threads	1"-12
Service Clearance	25.4 mm
Height	171 mm
Width / Depth	95 Diameter
Net Weight	0.73 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	4.23 kPa
Cross Reference	Racor B32014 / Aquapower 6040 / OMC 502905
Cross Element	S3214
Replacement Element	GGF502905
Mounting Head	PH107-SPP
Clear Bowl For Gasoline Use	PCB02-SPGA



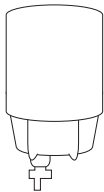
For Inboard & Outboard Engines



High Grade Metal Bowl



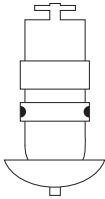
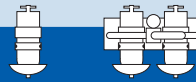
Element



GGF502905B-MAC

Model	GGF502905B-MAC
Flow Rate	227 LPH / 60 GPH
Center Threads	1"-12
Service Clearance	25.4 mm
Height	171 mm
Width / Depth	95 Diameter
Net Weight	0.73 kgs
Temperature	-40°C / +124°C
Clean Pressue Drop	4.23 kPa
Cross Reference	Racor B32021MAM / Aquapower 6040 / OMC 174144
Cross Element	S3221
Replacement Element	GGF502905
Mounting Head	PH107-SPP
Metal Bowl	PMB02-SP

Turbine S4MA Series - GTB228S4MA Models



GTB228S4MA



Stainless Steel Parts

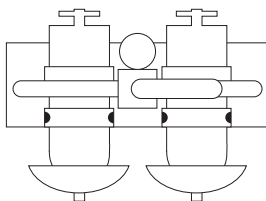


Clear Bowl with Heat Deflector Shield



2 / 10 / 30 Micron Element

Model	GTB228S4MA
Fuel Port	3/4-16" UNF
Flow Rate	228 LPH / 60 GPH
Service Clearance	89 mm
Height	275 mm
Width	120 mm
Depth	125 mm
Net Weight	1.3 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	1.72 kPa
Max. Operating Pressure	103 kPa
Cross Reference	500MA
Replacement Element	GTB22-2 / GTB22-10 / GTB22-30
Clear Bowl For Gasoline Use	PCB24MGA
Heat Deflector Shield	PHDS24MA



GTB228DM-S4MA



Stainless Steel Parts



Clear Bowl with Heat Deflector Shield

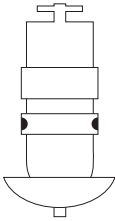
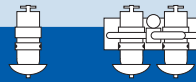


2 / 10 / 30 Micron Element

Model	GTB228DMS4-MA
Fuel Port	7/8-14" UNF
Flow Rate	454 LPH / 120 GPH
Service Clearance	102 mm
Height	275 mm
Width	476 mm
Depth	230 mm
Net Weight	7.1 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	75/500MAX
Replacement Element	GTB22-2 / GTB22-10 / GTB22-30
Clear Bowl For Gasoline Use	PCB24MGA
Heat Deflector Shield	PHDS24MA



Turbine S4MA Series - GTB455S4MA Models



GTB455S4MA



Stainless Steel Parts

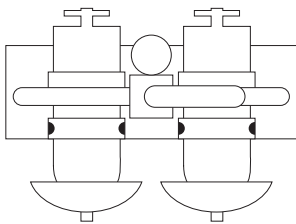
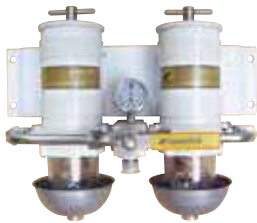


Clear Bowl with Heat Deflector Shield



2 / 10 / 30 Micron Element

Model	GTB455S4MA
Fuel Port	3/4-16" UNF
Flow Rate	455 LPH / 120 GPH
Service Clearance	165 mm
Height	353 mm
Width	117 mm
Depth	122 mm
Net Weight	1.6 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 For Gasoline Use	PCB24MGA
Heat Deflector Shield	PHDS24MA



GTB455DM-S4MA



Stainless Steel Parts



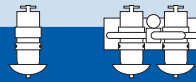
Clear Bowl with Heat Deflector Shield



2 / 10 / 30 Micron Element

Model	GTB455DMS4-MA
Fuel Port	7/8-14" UNF
Flow Rate	910 LPH / 240 GPH
Service Clearance	254 mm
Height	353 mm
Width	476 mm
Depth	235 mm
Net Weight	8.6 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 For Gasoline Use	PCB24MGA
Heat Deflector Shield	PHDS24MA

Turbine S4MA Series - GTB341S4MA Models



GTB341S4MA



Stainless Steel Parts

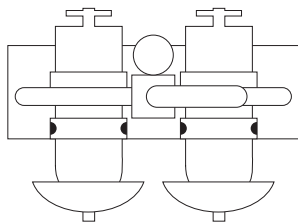


Clear Bowl with Heat Deflector Shield



2 / 10 / 30 Micron Element

Model	GTB341S4MA
Fuel Port	7/8-14" UNF
Flow Rate	341 LPH / 90 GPH
Service Clearance	127 mm
Height	412 mm
Width	145 mm
Depth	160 mm
Net Weight	2.2 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	2.4 kPa
Max. Operating Pressure	103 kPa
Cross Reference	900MA / G900S4MA
Replacement Element	GTB34-2 / GTB34-10 / GTB34-30
Clear Bowl For Gasoline Use	PCB36MGA
Heat Deflector Shield	PHDS36MA



GTB341DM-S4MA



Stainless Steel Parts



Clear Bowl with Heat Deflector Shield

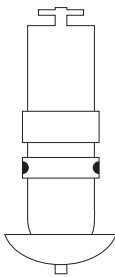
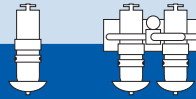


2 / 10 / 30 Micron Element

Model	GTB341DMS4-MA
Fuel Port	7/8-14" UNF
Flow Rate	681 LPH / 180 GPH
Service Clearance	127 mm
Height	412 mm
Width	476 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	75/900MAX / G900DMS4-MA
Replacement Element	GTB34-2 / GTB34-10 / GTB34-30
Clear Bowl For Gasoline Use	PCB36MGA
Heat Deflector Shield	PHDS36MA



Turbine S4MA Series - GTB681S4MA Models



GTB681S4MA



Stainless Steel Parts

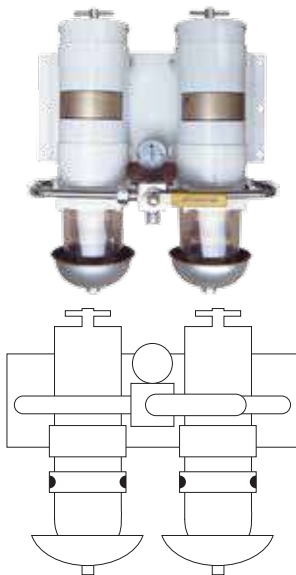


Clear Bowl with Heat Deflector Shield



2 / 10 / 30 Micron Element

Model	GTB681S4MA
Fuel Port	7/8-14" UNF
Flow Rate	681 LPH / 180 GPH
Service Clearance	254 mm
Height	535 mm
Width	147 mm
Depth	165 mm
Net Weight	2.9 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	3.3 kPa
Max. Operating Pressure	103 kPa
Cross Reference	1000MA / G1000S4MA
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Clear Bowl For Gasoline Use	PCB36MGA
Heat Deflector Shield	PHDS36MA



GTB681DM-S4MA



Stainless Steel Parts



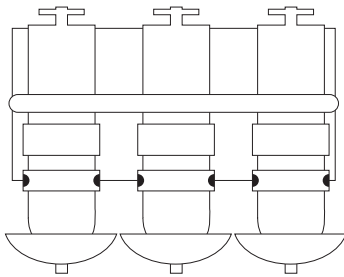
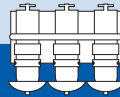
Clear Bowl with Heat Deflector Shield



2 / 10 / 30 Micron Element

Model	GTB681DMS4-MA
Fuel Port	7/8-14" UNF
Flow Rate	1363 LPH / 360 GPH
Service Clearance	254 mm
Height	542 mm
Width	476 mm
Depth	253 mm
Net Weight	12.8 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	75/1000MAX / G1000DMS4-MA
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Clear Bowl For Gasoline Use	PCB36MGA
Heat Deflector Shield	PHDS36MA

Turbine S4MA Series - GTB681S4MA Models



GTB681TM-S4MA



Stainless Steel Parts



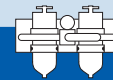
Clear Bowl with Heat Deflector Shield



2 / 10 / 30 Micron Element

Model	GTB681TMS4-MA
Fuel Port	3/4" NPT
Flow Rate	2043 LPH / 540 GPH
Service Clearance	254 mm
Height	525 mm
Width	585 mm
Depth	313 mm
Net Weight	26.6 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	79/1000MAV / G1000TMS4-MA
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Clear Bowl For Gasoline Use	PCB36MGA
Heat Deflector Shield	PHDS36MA

Turbine MAC Series - GTB228MAC Models



GTB228MAC



Stainless Steel Parts

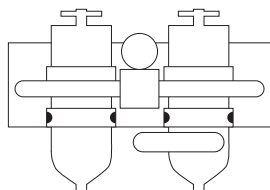


Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB228MAC
Fuel Port	3/4-16" UNF
Flow Rate	228 LPH / 60 GPH
Service Clearance	89 mm
Height	275 mm
Width	120 mm
Depth	125 mm
Net Weight	1.7 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	1.72 kPa
Max. Operating Pressure	103 kPa
Cross Reference	500MAM
Replacement Element	GTB22-2 / GTB22-10 / GTB22-30
Metal Bowl	PMB24



GTB228DM-MAC



Stainless Steel Parts



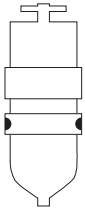
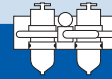
Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB228DM-MAC
Fuel Port	7/8-14" UNF
Flow Rate	454 LPH / 120 GPH
Service Clearance	102 mm
Height	275 mm
Width	476 mm
Depth	230 mm
Net Weight	7.1 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	75/500MAM
Replacement Element	GTB22-2 / GTB22-10 / GTB22-30
Metal Bowl	PMB24

Turbine MAC Series - GTB455MAC Models



GTB455MAC



Stainless Steel Parts

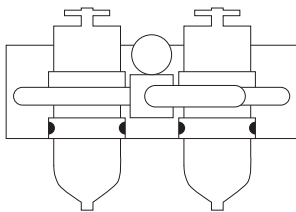


Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB455MAC
Fuel Port	3/4-16" UNF
Flow Rate	455 LPH / 120 GPH
Service Clearance	165 mm
Height	360 mm
Width	117 mm
Depth	122 mm
Net Weight	2.3 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
Metal Bowl	PMB24



GTB455DM-MAC



Stainless Steel Parts



Metal Bowl

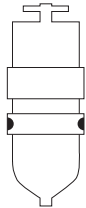


2 / 10 / 30 Micron Element

Model	GTB455DM-MAC
Fuel Port	7/8-14" UNF
Flow Rate	910 LPH / 240 GPH
Service Clearance	254 mm
Height	353 mm
Width	476 mm
Depth	235 mm
Net Weight	8.2 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
Metal Bowl	PMB24



Turbine MAC Series - GTB341MAC Models



GTB341MAC



Stainless Steel Parts

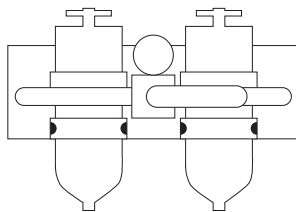


Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB341MAC
Fuel Port	7/8-14" UNF
Flow Rate	341 LPH / 90 GPH
Service Clearance	127 mm
Height	420 mm
Width	145 mm
Depth	160 mm
Net Weight	3.1 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	2.4 kPa
Max. Operating Pressure	103 kPa
Cross Reference	900MAM / G900MAC
Replacement Element	GTB34-2 / GTB34-10 / GTB34-30
Metal Bowl	PMB36



GTB341DM-MAC



Stainless Steel Parts



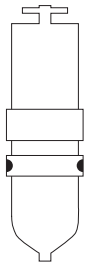
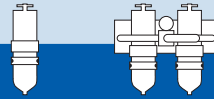
Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB341DM-MAC
Fuel Port	7/8-14" UNF
Flow Rate	681 LPH / 180 GPH
Service Clearance	127 mm
Height	412 mm
Width	476 mm
Depth	248 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	75/900MAM / G900DM-MAC
Replacement Element	GTB34-2 / GTB34-10 / GTB34-30
Metal Bowl	PMB36

Turbine MAC Series - GTB681MAC Models



GTB681MAC



Stainless Steel Parts

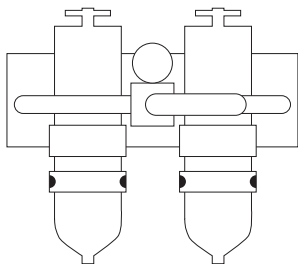


Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB681MAC
Fuel Port	7/8-14" UNF
Flow Rate	681 LPH / 180 GPH
Service Clearance	254 mm
Height	530 mm
Width	147 mm
Depth	165 mm
Net Weight	3.2 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	3.3 kPa
Max. Operating Pressure	103 kPa
Cross Reference	1000MAM / G1000MAC
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Metal Bowl	PMB36



GTB681DM-MAC



Stainless Steel Parts



Metal Bowl

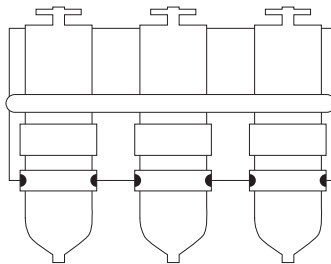
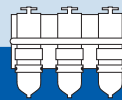


2 / 10 / 30 Micron Element

Model	GTB681DM-MAC
Fuel Port	7/8-14" UNF
Flow Rate	1363 LPH / 360 GPH
Service Clearance	254 mm
Height	535 mm
Width	476 mm
Depth	253 mm
Net Weight	13.4 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	75/1000MAM / G1000DM-MAC
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Metal Bowl	PMB36



Turbine MAC Series - GTB681MAC Models



GTB681TM-MAC



Stainless Steel Parts



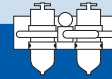
Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB681TM-MAC
Fuel Port	3/4" NPT
Flow Rate	2043 LPH / 540 GPH
Service Clearance	254 mm
Height	530 mm
Width	585 mm
Depth	313 mm
Net Weight	26 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	79/1000MAV / G1000TM-MAC
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Metal Bowl	PMB36

Turbine MAS Series - GTB228MAS Models



GTB228MAS



Fully Stainless Steel Assembly

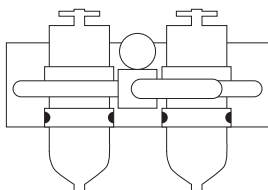


Fully Stainless Steel Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB228MAS
Fuel Port	3/4-16" UNF
Flow Rate	228 LPH / 60 GPH
Service Clearance	89 mm
Height	275 mm
Width	120 mm
Depth	125 mm
Net Weight	2.5 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	1.72 kPa
Max. Operating Pressure	103 kPa
Cross Reference	500MAM
Replacement Element	GTB22-2 / GTB22-10 / GTB22-30
Fully Stainless Steel Metal Bowl	PMB24S



GTB228DM-MAS



Fully Stainless Steel Assembly



Fully Stainless Steel Metal Bowl

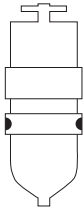
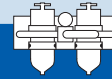


2 / 10 / 30 Micron Element

Model	GTB228DM-MAS
Fuel Port	7/8-14" UNF
Flow Rate	454 LPH / 120 GPH
Service Clearance	102 mm
Height	275 mm
Width	476 mm
Depth	230 mm
Net Weight	10.5 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	75/500MAM
Replacement Element	GTB22-2 / GTB22-10 / GTB22-30
Fully Stainless Steel Metal Bowl	PMB24S



Turbine MAS Series - GTB455MAS Models



GTB455MAS



Fully Stainless Steel Assembly

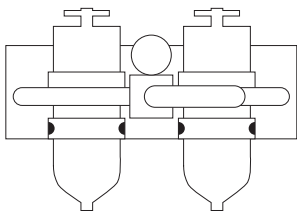


Fully Stainless Steel Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB455MAS
Fuel Port	3/4-16" UNF
Flow Rate	455 LPH / 120 GPH
Service Clearance	165 mm
Height	360 mm
Width	117 mm
Depth	122 mm
Net Weight	3.4 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
Fully Stainless Steel Metal Bowl	PMB24S



GTB455DM-MAS



Fully Stainless Steel Assembly



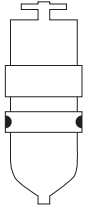
Fully Stainless Steel Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB455DM-MAS
Fuel Port	7/8-14" UNF
Flow Rate	910 LPH / 240 GPH
Service Clearance	254 mm
Height	353 mm
Width	476 mm
Depth	236 mm
Net Weight	11.5 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
Fully Stainless Steel Metal Bowl	PMB24S

Turbine MAS Series - GTB341MAS Models



GTB341MAS



Fully Stainless Steel Assembly

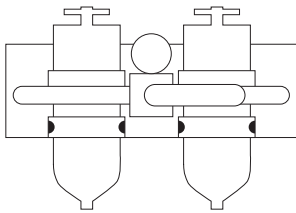


Fully Stainless Steel Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB341MAS
Fuel Port	7/8-14" UNF
Flow Rate	341 LPH / 90 GPH
Service Clearance	127 mm
Height	420 mm
Width	145 mm
Depth	160 mm
Net Weight	4.2 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	2.4 kPa
Max. Operating Pressure	103 kPa
Cross Reference	900MAM
Replacement Element	GTB34-2 / GTB34-10 / GTB34-30
Fully Stainless Steel Metal Bowl	PMB36S



GTB341DM-MAS



Fully Stainless Steel Assembly



Fully Stainless Steel Metal Bowl

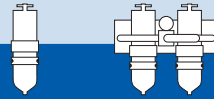


2 / 10 / 30 Micron Element

Model	GTB341DM-MAS
Fuel Port	7/8-14" UNF
Flow Rate	681 LPH / 180 GPH
Service Clearance	127 mm
Height	412 mm
Width	476 mm
Depth	247 mm
Net Weight	14 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	75/900MAM
Replacement Element	GTB34-2 / GTB34-10 / GTB34-30
Fully Stainless Steel Metal Bowl	PMB36S



Turbine MAS Series - GTB681MAS Models



GTB681MAS



Fully Stainless Steel Assembly

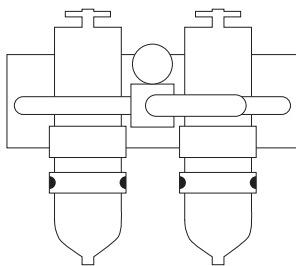


Fully Stainless Steel Metal Bowl



2 / 10 / 30 Micron Element

Model	GTB681MAS
Fuel Port	7/8-14" UNF
Flow Rate	681 LPH / 180 GPH
Service Clearance	254 mm
Height	530 mm
Width	147 mm
Depth	165 mm
Net Weight	5.8 kg
Temperature	-20°C / +121°C
Clean Pressure Drop	3.3 kPa
Max. Operating Pressure	103 kPa
Cross Reference	1000MAM
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Fully Stainless Steel Metal Bowl	PMB36S



GTB681DM-MAS



Fully Stainless Steel Assembly

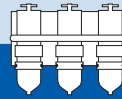


Fully Stainless Steel Metal Bowl

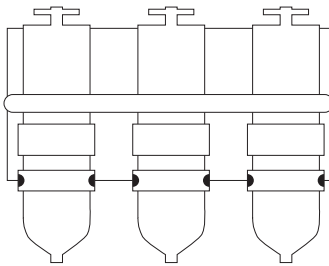


2 / 10 / 30 Micron Element

Model	GTB681DM-MAS
Fuel Port	7/8-14" UNF
Flow Rate	1363 LPH / 360 GPH
Service Clearance	254 mm
Height	535 mm
Width	476 mm
Depth	253 mm
Net Weight	16.8 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	75/1000MAM
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Fully Stainless Steel Metal Bowl	PMB36S



Turbine MAS Series - GTB681MAS Models



GTB681TM-MAS



Fully Stainless Steel Assembly



Fully Stainless Steel Metal Bowl



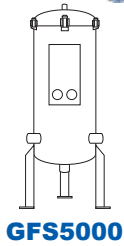
2 / 10 / 30 Micron Element

Model	GTB681TM-MAS
Fuel Port	3/4" NPT
Flow Rate	2043 LPH / 540 GPH
Service Clearance	254 mm
Height	530 mm
Width	595 mm
Depth	313 mm
Net Weight	30.3 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	79/1000MAV
Replacement Element	GTB68-2 / GTB68-10 / GTB68-30
Fully Stainless Steel Metal Bowl	PMB36S

GFS Series - GFS5000 Models



For DIESEL USE



GFS5000



Fully Stainless Steel Assembly

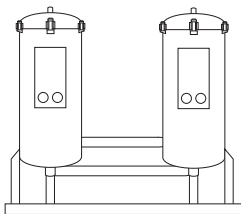


30 Micron Element (One time use)

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



For DIESEL USE



GFS5000DM



Fully Stainless Steel Assembly



30 Micron Element (One time use)

Model	GFS5000DM
Fuel Port	1-1/2" NPT
Flow Rate	10000 LPH / 2642 GPH
Filtration Material	Diesel
Operation Temperature	0°C / 46°C
Air Washing Pressure	0.4 MPa
Working Pressure	0.05 ~ 0.15 MPa
Weight	80 kg
Size (mm)	1090 mm (L) x 354 mm (W) x 1030 mm (H)
Body Materials	Stainless Steel
Replacement Element	GFS-EW510 (6 unit) ~ 30 micron

GFS & GLS Series - GLS5000 & GFS2800 Models



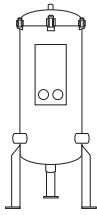
For LUBE OIL USE



Fully Stainless Steel Assembly



80 Micron Element (Washable)



GLS5K

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)

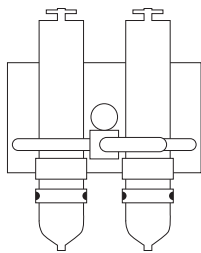


80 Micron Element (Washable)

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

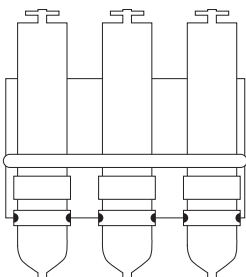


30 Micron Element (One time use)



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



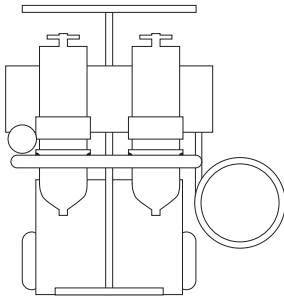
30 Micron Element (One time use)



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





GMS1362



Steel Parts

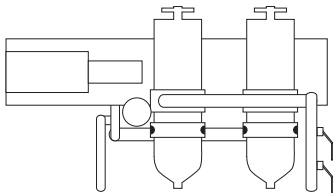


Clear Bowl



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 Parts



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 9001:2008 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



GRIFFIN®

Your Fuel Filter / Water Separator Specialist

MICROBLOC®
TECHNOLOGY



Singapore

GRIFFIN GROUP INTERNATIONAL PTE LTD
No.1 Bukit Batok Crescent, #07-06 WCEGA Plaza, Singapore 658064

Tel: +65-6570 0670 / +65- 6570 0671 / +65 6570 0673
Fax: +65-6570 0674

Website: www.griffinfilter.com | Email: info@griffinfilter.com

USA

GRIFFIN INTERNATIONAL GROUP, INC
PO box 417 Fulshear, Texas 77441

Toll FREE: 1800-485-5071

FOR LOCAL DISTRIBUTOR / DEALER:



FUEL FILTER / WATER SEPARATOR

