GLF Series
Low Pressure Tank Top Return Line Filters
Preventive

- fights costly equipment maintenance
- reduces system downtime
- controls solid contaminants
- protects fluid & system components

GLF Series

The Parker GLF low pressure return line filter is engineered to deliver efficient contamination control and performance in today’s demanding hydraulic circuits. The Parker GLF is designed to maximize capacity and element life while maintaining low pressure drop, even in cold start conditions. The optional two port design provides the user installation flexibility and reduces installed cost. The inside-to-outside flow path confines contaminant during element service and minimizes contaminant exposure to the reservoir. The GLF offers pressure gauge and pressure switch ports for visual or electrical switch monitoring of the installed element.
GLF Series

Typical Applications

- Deck and Mobile cranes
- Fire fighting equipment
- Forwarders
- Hydraulic presses
- Marine steering units
- Power packs
- Excavators
- Harvesters
- Waste balers
- Reachstackers
- Wheel loaders
- Drilling loaders
- Industrial Power units
- Telehandlers
- Aerial Equipment
- Waste management, dump and fork lift trucks

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Advantage</th>
<th>Benefit</th>
</tr>
</thead>
</table>
| Filter design and element construction with perforated metal outer wrap | • Provides excellent flow diffusing, controlling aeration | • Reduced cost and assembly weight  
• No bowl required | • Optimized performance |
| High efficiency Microglass media maximizing filtration area | • Combines high particle capture efficiency with high dirt holding capacity and lower ΔP | • Cleaner fluids, longer lasting with fewer service intervals  
• Continuous filtration in cold start conditions  
• Lower operating costs |
| Element design includes integral bypass valve with closed bottom end cap | • New bypass with each element change  
• Ensures captured contaminants are removed with each element change | • Ensures reliable bypass performance  
• Reduced risk for contamination during service |
| Optional Magnetic prefiltration | • Removes large ferrous contaminants | • Extends element life  
• Visual indication of component wear |
| Patented filter element | • Promotes genuine service parts | • Guaranteed quality of filtration |
| Inside-to-Outside filtration | • All captured contamination retained inside the element | • No recontamination of system during the change of the element |
| Service friendly product design | • Easy servicing by simple element change  
• End cap Bridge grip for easy element removal | • Reduces service time for filter |
| Visual or Electrical indicators | • Know exactly when to service the element | • Reduces downtime with scheduled service |
| Top access element service | • Oil remains in housing  
• Quicker element change | • No spills  
• Reduced maintenance costs |
| Head with 2 Inlet Ports | • Can be used as a fill port  
• Offers installation flexibility | • All added oil is filtered  
• Reduced connections |
GLF2 Series
GLF2-1 Element Performance

Efficiency

Capacity

Flow vs. Pressure Loss

Results typical from Multi-pass tests run per test standard ISO 16889 @ 30 gpm to 50 psid terminal - 10 mg/L BUGL
GLF2 Series
GLF2-2 Element Performance

Results typical from Multi-pass tests run per test standard ISO 16889 @ 45 gpm to 50 psid terminal - 10 mg/L BUGL

Flow vs. Pressure Loss
GLF3 Series
GLF3-1 Element Performance

Results typical from Multi-pass tests run per test standard ISO 16889 @ 50 gpm to 50 psid terminal - 10 mg/L BUGL
GLF3 Series
GLF3-2 Element Performance

Results typical from Multi-pass tests run per test standard ISO 16889 @ 70 gpm to 50 psid terminal - 10 mg/L BUGL

Flow vs. Pressure Loss

Efficiency

Capacity

Beta Rating

Efficiency %

Capacity grams

Micron Size (c)

Flow grams

Pressure drops

Capacity grams

Micron Size (c)

Flow grams

Pressure drops

Flow grams

Pressure drops
GLF4 Series
GLF4-1 Element Performance

Results typical from Multi-pass tests run per test standard ISO 16889 @ 70 gpm to 50 psid terminal - 10 mg/L BUGL

Flow vs. Pressure Loss
GLF4 Series
GLF4-2 Element Performance

Results typical from Multi-pass tests run per test standard ISO 16889 @ 70 gpm to 50 psid terminal - 10 mg/L Bugl

Flow vs. Pressure Loss
GLF2 Series
Specifications & Dimensions

Pressure Ratings:
Maximum Allowable Operating Pressure (MAOP):
150 psi (10.3 bar)

Operating Temperatures:
Nitrile: -40°F (-40°C) to 225°F (107°C)
Fluorocarbon: -15°F (-26°C) to 275°F (135°C)

Element Burst Rating:
150 psid (10.3 bar)

Filtration Media Grade:
2, 5, 10 & 20Q

Element Condition Indicators:
Gauge: 0-60 psi color coded
Switch: 30 psi SPDT 5A, 12/24 VDC and 125/250 VAC, 3-pin Deutsch DT04-3P

Materials:
Head: Cast Aluminum Alloy
Cover: GF Nylon
Bypass Valve: GF Nylon, Music wire
Filter Media: Microglass composite
Element End Caps: GF Nylon

Weights (approximate):
GLF2-1 ........4 lbs. (1.81 kg)
GLF2-2 ........5 lbs. (2.27 kg)

Linear Measure: inch (mm)
Drawings are for reference only. Contact factory for current version.

Model | X: Element Depth | Y: Drop Tube | H: Element Removal Clearance
--- | --- | --- | ---
GLF2-1 | 7.49 (190.2) | 7.65 (194.31) | 9.04 (229.6)
GLF2-2 | 11.26 (286.0) | 11.45 (290.8) | 12.81 (325.4)

Reservoir Cutout Diameter:
4.77 (121)

Optional Breather Shown see pg 15

Indicator Location - Optional Pressure Gauge Shown see pg 14
GLF3 Series
Specifications & Dimensions

Pressure Ratings:
Maximum Allowable Operating Pressure (MAOP):
150 psi (10.3 bar)

Operating Temperatures:
Nitrile: -40°F (-40°C) to 225°F (107°C)
Fluorocarbon: -15°F (-26°C) to 275°F (135°C)

Element Burst Rating:
150 psid (10.3 bar)

Filtration Media Grade:
2, 5, 10 & 20Q

Element Condition Indicators:
Gauge: 0-60 psi color coded
Switch: 30 psi SPDT 5A, 12/24 VDC and 125/250 VAC, 3-pin Deutsch DT04-3P

Materials:
Head & Cover: Cast Aluminum Alloy
Bypass Valve: GF Nylon, Music wire
Filter Media: Microglass composite
Element End Caps: GF Nylon

Weights (approximate):
GLF3-1 ...........7 lbs. (3.18 kg)
GLF3-2 ...........8 lbs. (3.63 kg)

Linear Measure: inch [mm]
Drawings are for reference only. Contact factory for current version.

<table>
<thead>
<tr>
<th>Model</th>
<th>X Element Depth</th>
<th>Y Drop Tube</th>
<th>H Element Removal Clearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLF3-1</td>
<td>10.48 (266.2)</td>
<td>11.65 (295.9)</td>
<td>12.8 (325.1)</td>
</tr>
<tr>
<td>GLF3-2</td>
<td>16.68 (423.7)</td>
<td>17.48 (443.9)</td>
<td>19.00 (482.6)</td>
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*Check to ensure flange clearance. Weld plate or low profile flange kit may be required.

Dual 2” SAE Code 61
Flange Face Option
See Typical Flange Dimensions pg 12
GLF4 Series
Specifications & Dimensions

Pressure Ratings:
Maximum Allowable Operating Pressure (MAOP):
150 psi (10.3 bar)

Operating Temperatures:
Nitrile: -40°F (-40°C) to 225°F (107°C)
Fluorocarbon: -15°F (-26°C) to 275°F (135°C)

Element Burst Rating:
150 psid (10.3 bar)

Filtration Media Grade:
2, 5, 10 & 20Q

Element Condition Indicators:
Gauge: 0-60 psi color coded
Switch: 30 psi SPDT 5A, 12/24 VDC and 125/250 VAC, 3-pin Deutsch DT04-3P

Materials:
Head & Cover: Cast Aluminum Alloy
Bypass Valve: GF Nylon, Music wire
Filter Media: Microglass composite
Element End Caps: GF Nylon

Weights (approximate):
GLF4-1 ........ .9 lbs. (4.08 kg)
GLF4-2 ........ .10 lbs. (4.54 kg)

Linear Measure: inch [mm]

Drawings are for reference only.
Contact factory for current version.

Elements Burst Rating:
150 psid (10.3 bar)

Filtration Media Grade:
2, 5, 10 & 20Q

Element Condition Indicators:
Gauge: 0-60 psi color coded
Switch: 30 psi SPDT 5A, 12/24 VDC and 125/250 VAC, 3-pin Deutsch DT04-3P

Materials:
Head & Cover: Cast Aluminum Alloy
Bypass Valve: GF Nylon, Music wire
Filter Media: Microglass composite
Element End Caps: GF Nylon

Weights (approximate):
GLF4-1 ........ .9 lbs. (4.08 kg)
GLF4-2 ........ .10 lbs. (4.54 kg)

Linear Measure: inch [mm]

Drawings are for reference only.
Contact factory for current version.

Pressure Ratings:
Maximum Allowable Operating Pressure (MAOP):
150 psi (10.3 bar)

Operating Temperatures:
Nitrile: -40°F (-40°C) to 225°F (107°C)
Fluorocarbon: -15°F (-26°C) to 275°F (135°C)

Element Burst Rating:
150 psid (10.3 bar)

Filtration Media Grade:
2, 5, 10 & 20Q

Element Condition Indicators:
Gauge: 0-60 psi color coded
Switch: 30 psi SPDT 5A, 12/24 VDC and 125/250 VAC, 3-pin Deutsch DT04-3P

Materials:
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Linear Measure: inch [mm]

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Filtration Media Grade:
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Filter Media: Microglass composite
Element End Caps: GF Nylon

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Linear Measure: inch [mm]

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Contact factory for current version.
# GLF Series Parts List

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
<th>Part Number</th>
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<td>Head GLF2, SAE-16 inlet port</td>
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<td>Head GLF2, 2 x SAE-24 inlet ports</td>
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<td>Head GLF3, SAE-24 inlet port</td>
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<td>Head GLF3, 2 x SAE-24 inlet ports</td>
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<td>Head GLF3, 2x2&quot; SAE Code 61 Flange Face Inlet Ports</td>
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<td>GLF3 M8 - 1.25 x 25 grade 8.8 bolt serrated flange</td>
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<td>Pressure switch</td>
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<td>GLF4 Cover O-ring fluorocarbon</td>
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<td>GLF2 Breather</td>
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<td>GLF2 Port Plug, Airbreather (G3/8&quot; BSPP)</td>
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<td>GLF2 Tank Support Ring</td>
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* options
GLF Series
Options and Accessories

Electrical Switch (30 psi)
PN 946367

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<tr>
<th>Wiring Code</th>
<th>Switch Contact</th>
<th>Receptacle</th>
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<tr>
<td></td>
<td>Common</td>
<td>Socket A</td>
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<tr>
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<td>Normally Closed</td>
<td>Socket B</td>
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<td></td>
<td>Normally Open</td>
<td>Socket C</td>
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Pressure Gauge
PN 946326

2 inch Flange Adapter Kits
(flange, 4 bolts, o-ring)

<table>
<thead>
<tr>
<th>Part Number</th>
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<tbody>
<tr>
<td>Size</td>
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<tr>
<td>¼ inch NPTF</td>
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<tr>
<td>1 inch NPTF</td>
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<tr>
<td>1¼ inch NPTF</td>
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<tr>
<td>1½ inch NPTF</td>
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<td>2 inch NPTF</td>
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<td>SAE - 12</td>
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<td>SAE - 20</td>
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<tr>
<td>SAE - 24</td>
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<td>Flange blank</td>
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</table>

Low Profile Split Flange Kit (nitrile)

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<td>2”</td>
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<td>3”</td>
<td>947098</td>
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Linear Measure: inch (mm)

Drawings are for reference only.
Contact factory for current version.
**GLF Series**

Options and Accessories

**Weld Plates**

**GLF3** - PN 946567

**GLF4** - PN 946765

<table>
<thead>
<tr>
<th>Model</th>
<th>inch/mm</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E - Hole in Reservoir</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLF3</td>
<td>7.15 (182)</td>
<td>7.15 (182)</td>
<td>5.63 (143)</td>
<td>1 (25)</td>
<td>5.75-6.25 (146-159)</td>
<td>3/8-16 UNC-2A</td>
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</tr>
<tr>
<td>GLF4</td>
<td>8.00 (203)</td>
<td>8.00 (203)</td>
<td>7.01 (178)</td>
<td>.75 (19)</td>
<td>7.1-7.25 (180-184)</td>
<td>1/2-13 UNC-2B</td>
<td></td>
</tr>
</tbody>
</table>

**GLF2 Breather**

PN AB.685101

**Construction:** GF nylon and glass coupled polypropylene.

**Element:** Expanded Polyurethane foam, 10 micron absolute.

**Seal:** Nitrile.

**Inlet Port Options**

**GLF2**

**GLF3**

**GLF4**

**Air Flow (gallons/sec)**

![Graph showing air flow vs. pressure difference](image)
GLF Series
Operating and Maintenance Instructions

A. Start-Up
1. Check for and eliminate leaks upon system start-up.
2. Check differential pressure indicator, if installed, to monitor element condition.

B. Service
1. An element must be serviced when the indicator indicates service is required.

NOTE: If the filter is not equipped with an indicator, the element should be serviced according to machine manufacturer’s instructions.

C. Servicing Dirty Element
1. Shut system down to assure that there is NO PRESSURE OR FLOW into the filter housing.
2. Remove the filter cover.
3. Remove and discard the contaminated element cartridge.

D. Before Installing a New Element Cartridge
1. Clean the magnetic core, if fitted, with a lint-free cloth.
2. Check all seals and replace if necessary.

E. To Install a New Element Cartridge
1. Lubricate all seals.
2. Align filter element end cap with guide posts located in head.
3. Mount new filter cartridge.
4. Re-install the cover.
5. Torque the cover bolts per drawing.
GLF Series
Low pressure filters

How To Order
Select the desired symbol (in the correct position) to construct a model code.

Example:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLF3</td>
<td>2</td>
<td>10Q</td>
<td>B</td>
<td>P</td>
<td>I</td>
<td>S24</td>
<td>1</td>
</tr>
</tbody>
</table>

BOX 1: Basic Assembly
Symbol Description
GLF2 Tank Top Return Line Filter
GLF3 Tank Top Return Line Filter
GLF4 Tank Top Return Line Filter

BOX 2: Length
Symbol Description
1 Single
2 Double

BOX 3: Media Code
Symbol Description
02Q Microglass, 2 micron
05Q Microglass, 5 micron
10Q Microglass, 10 micron
20Q Microglass, 20 micron

BOX 4: Seals
Symbol Description
B Nitrile (NBR)
V Fluorocarbon (FKM)

BOX 5: Indicator(s)
Symbol Description
P Plugged Ports
G Pressure Gauge, tri-color
S Pressure Switch

BOX 6: Bypass
Symbol Description
I 35 psid (2.4 bar)

BOX 7: Ports
Symbol Description
GLF2 S16 SAE-16 Inlet Port
S24 SAE-24 Inlet Port
2S24 Dual SAE-24 ports

GLF3 S24 SAE-24 port
2S24 Dual SAE-24 ports
2Y32 Dual SAE 2" Code 61 Flange Face Inlet Ports (1/2" - 13 UNC)

GLF4 2Y40 Dual SAE Code 61 Flange Face Ports (1x2 1/2" port, 1x2" port)
2Y48 Dual SAE Code 61 Flange Face Ports (1x3" port, 1x2" port)

BOX 8: Options
Symbol Description
1 None
M Magnets
D Drop Tube
MD Magnets and Drop Tube

Notes:
1. The filter includes the element you select already installed.
2. A single SAE flange port connection can be achieved as follows: GLF3: Select “2Y32” at Box 7 and install a separately purchased flange blank kit; GLF4: Select “2Y40” or “2Y48” at Box 7 and install a separately purchased flange blank kit.
3. Flange blank kit (2”) part numbers are 924781 (nitrile), 926006 (fluorocarbon).

Replacement Elements

<table>
<thead>
<tr>
<th>Media</th>
<th>Single Length</th>
<th>Double Length</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Nitrile</td>
<td>Fluorocarbon</td>
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<tr>
<td></td>
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<td>Fluorocarbon</td>
</tr>
<tr>
<td>GLF2</td>
<td></td>
<td></td>
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<tr>
<td>02Q</td>
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<td>946841Q</td>
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<tr>
<td>05Q</td>
<td>946850Q</td>
<td>946842Q</td>
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<td>Fluorocarbon</td>
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<tr>
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<td>945906Q</td>
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<tr>
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<td></td>
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<tr>
<td>20Q</td>
<td>946434Q</td>
<td>946459Q</td>
</tr>
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</table>
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