

## GLF iprotect® Series

Size 2 & 3 Tanktop Mounted Return Line Filters

Max. 800 l/min - 10 bar



ENGINEERING YOUR SUCCESS.

# GLF iprotect® Series

## Size 2 & 3 Tanktop Mounted Return Line Filters

### A compact, cost effective low pressure filter solution

Designed with the iprotect® patented filtration technology.

The Parker GLF iprotect® is designed to provide high quality filtration to hydraulic systems, providing new possibilities to reduce the cost of ownership by improving the productivity and profitability.

The patented design of the filter element ensures the quality of filtration is secured.

Parker has taken on board the requirements to provide more compact solutions. The total space envelope is minimized due to the compact design of the filter and short element clearance. Which makes it easier to fit and maintain within every application.

Contaminated oil can not leak back during service maintenance due to the proven in-to-out filter principle.



### Product Features

- Guaranteed quality of filtration
- No recontamination of the system during the change of the element
- Reduce energy consumption by filter head
- In-Tank mounted solutions are possible
- Maximum performance with less weight and smaller envelope needed
- Reduce service time for the filter with 50%
- Unique OEM branding is possible on request

### Typical Applications

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

# GLF iprotect® Series

## Size 2 & 3 Tanktop Mounted Return Line Filters

Features	Advantages	Benefits
Patented iprotect® filter element	Avoid use of non-genuine parts	Guaranteed quality of filtration
In-to-out filtration	All captured contamination retains inside the element	No recontamination of system during the change of the element
10 bar rated filter	Filter can be utilised for severe return line applications	Reduce downtime due to premature filter failures
Diffuser option (Air tight)	Ensure oil entry below oil level in reservoir	Significant reduction of oil foaming / air entrapment
Magnetic pre-filtration	Removes ferrous particles, even during bypass condition	Improve fluid cleanliness level and extend element life time
Tank In build option	Filter components are protected by reservoir	Suitable for extreme heavy duty applications or hazardous environment
Compact element construction	Compact and lightweight design	Maximum performance with less weight and smaller envelop needed
Service friendly product design	Easy servicing by simple element change	Reduce service time for filter over 50%

### The Parker Filtration GLF iprotect® Series Tanktop Mounted Return Line Filters.

By offering a flow range upto 800 l/min with different porting configurations the GLF Series can be used in a wide variety of applications. The filters are featured with magnetic pre-filtration by means of a magnet column.

### Specifications

**Operating pressure:**

Max. 10 bar.

**Assembly:**

Tanktop mounted

**Connections:**

Threaded BSP and flanged SAE single ports  
(or dual ports on request, both ports are the same size)

**Filter housing:**

Aluminium head  
Aluminium / reinforced polyamide cover

**Seal material:**

Nitrile (or Fluoroelastomer on request)

**Operating temperature range:**

Seal material Nitrile: -40° to +100°C.

**Bypass setting**

Opening pressure 1.7 (or 3.5 bar)

**Filter element:**

Degree of filtration determined by multipass test according to (ISO 16889)

**Flow fatigue characteristics:**

Filter media is supported so that the optimum fatigue life is achieved. (ISO 3724)

**Element burst rating:**

10 bar (ISO 2941)

**Element configuration:**

Quantumfiber™ filter media  
Metal outer support core  
Reinforced polyamide end caps  
Reinforced polyamide bypass cartridge

**Pressure indicator:**

Please order separately (see ordering information)  
Visual pressure gauge with setting 1.2 (or 2.5 bar)  
Electrical pressure switches with setting 1.2 (or 2.5 bar)

**Options:**

Funnel for recommended oil entry below oil level in reservoir  
Magnet pack for ferrous particle removal

**Other options available on request:**

Filled port in cover GLF3, G 3/4" plugged  
ATEX certification  
Air breather GLF2.  
(Order separately, see ordering information)  
Customer branded element

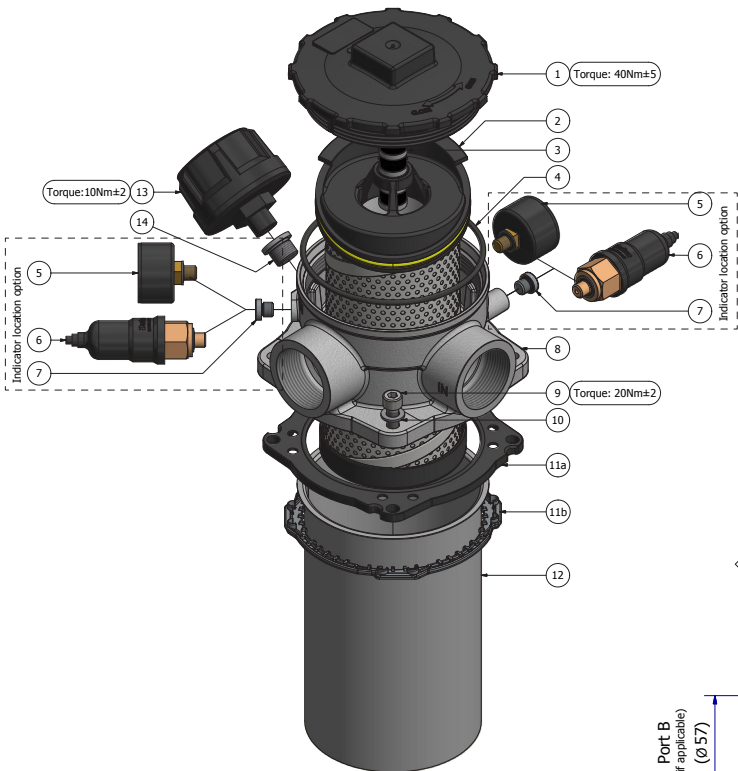




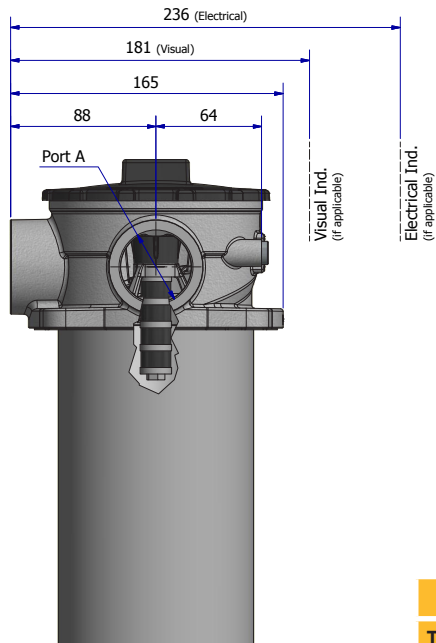
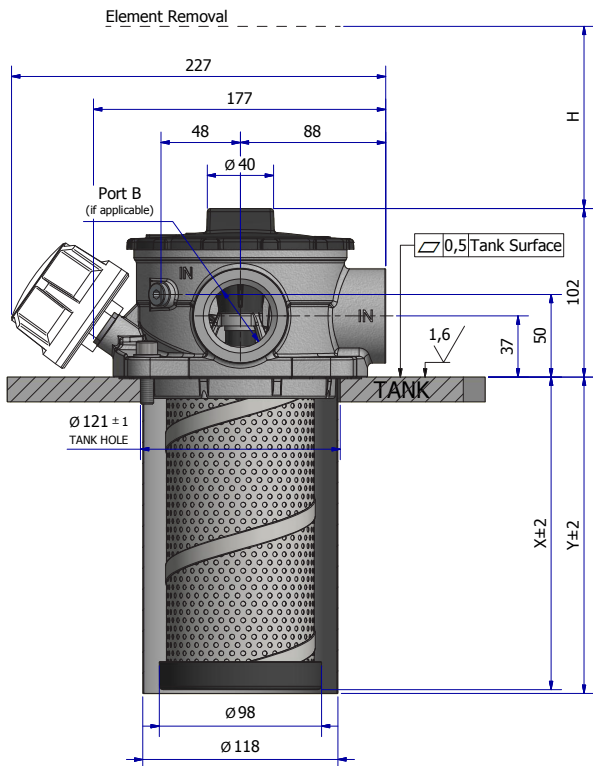
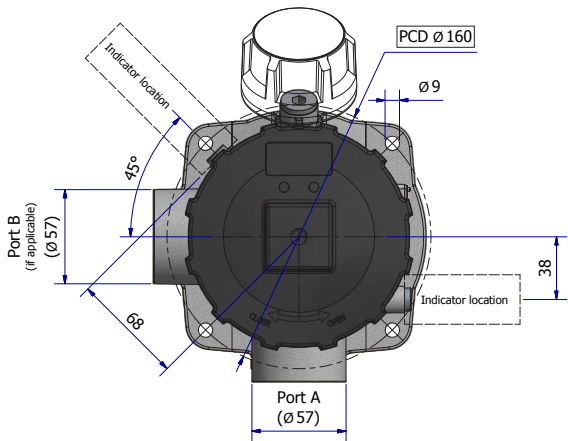
# GLF iprotect® Series

## Size 2 & 3 Tanktop Mounted Return Line Filters

### GLF - Size 2 Technical information



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	COVER
2	1	ELEMENT
3	1	MAGNET COLUMN
4	1	O-RING
5	1	PRESSURE GAUGE (Optional)
6	1	PRESSURE SWITCH (Optional)
7	2	COLLARPLUG G1/8 INCL SEAL (Standard)
8	1	FILTER HEAD
9	4	HEX SOCKET M8 (Not supplied)
10	4	WASHER M8 (Not supplied)
11a	1	GASKET
11b	1	SEAL SUPPORT RING
12	1	FUNNEL
13	1	AIR BREATHER (Optional)
14	1	PLUG G3/8 INCL SEAL (Standard)

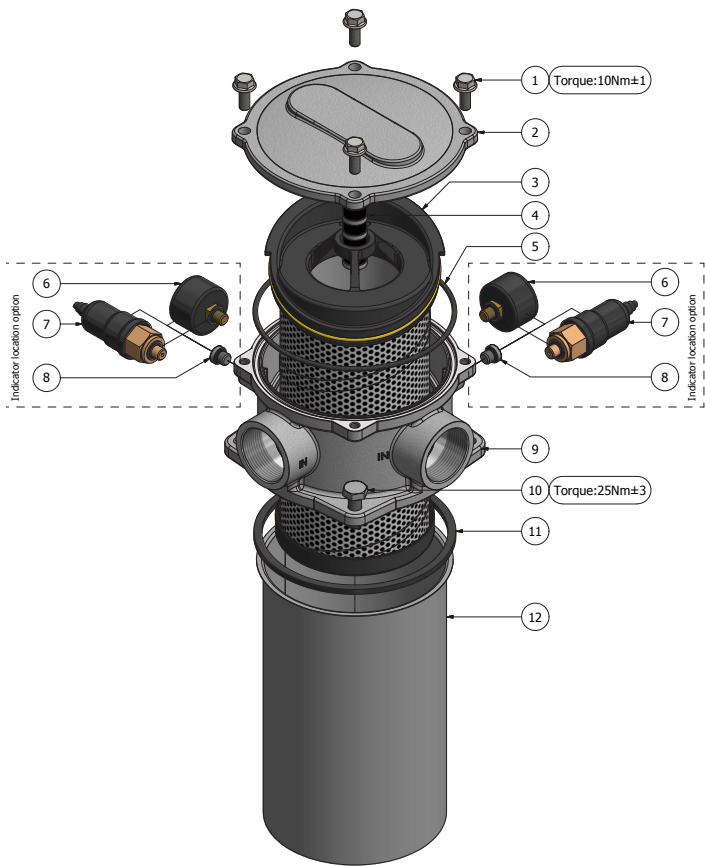


DIMENSION			
TYPE	X	Y	H
GLF21	189	192	169
GLF22	288	291	268

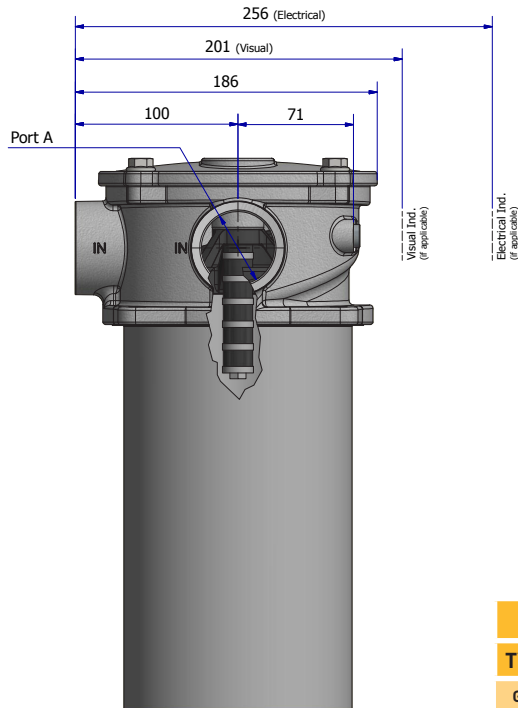
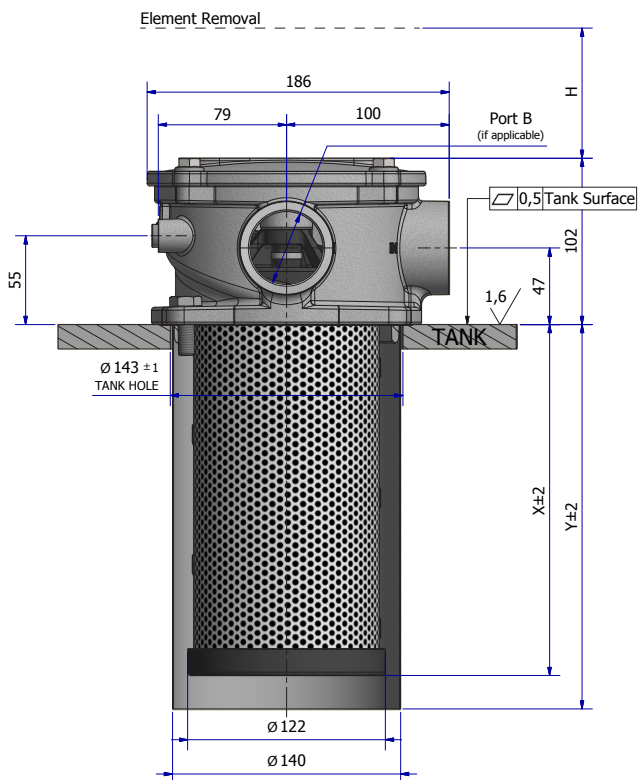
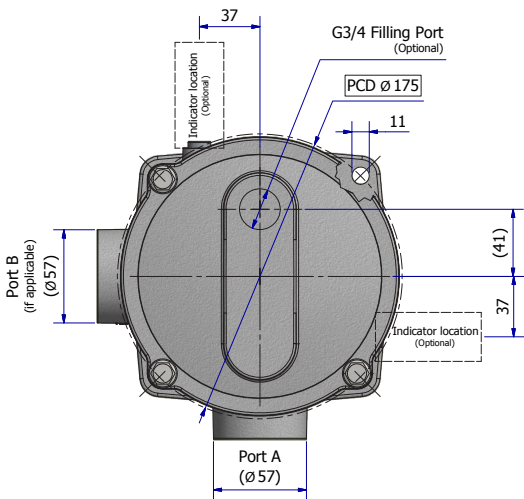
# GLF iprotect® Series

## Size 2 & 3 Tanktop Mounted Return Line Filters

### GLF - Size 3 Technical information



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	4	BOLT HEX M8x20 ST8.8 Z FLANGED DIN6921
2	1	COVER
3	1	ELEMENT
4	1	MAGNET COLUMN
5	1	O-RING
6	1	PRESSURE GAUGE (Optional)
7	1	PRESSURE SWITCH (Optional)
8	2	COLLARPLUG G1/8 INCL SEAL (Standard)
9	1	FILTER HEAD
10	4	BOLT M10 (Not supplied)
11	1	GASKET
12	1	FUNNEL

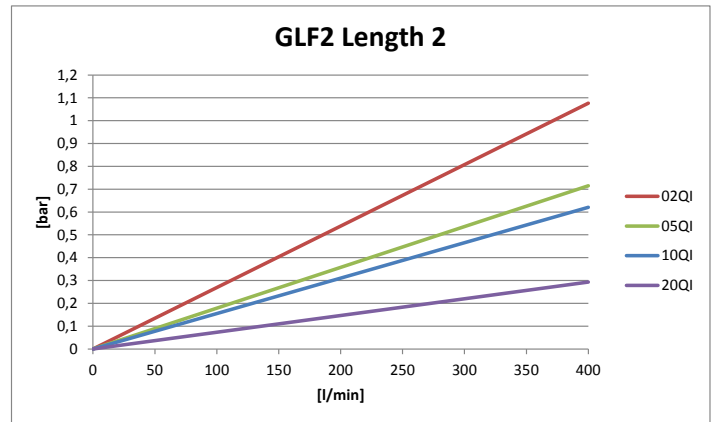
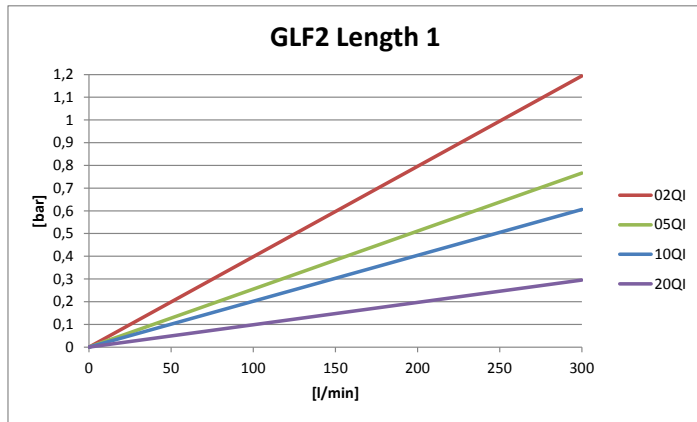


DIMENSION			
TYPE	X	Y	H
GLF31	216	236	240
GLF32	275	295	380
GLF33	373	393	480

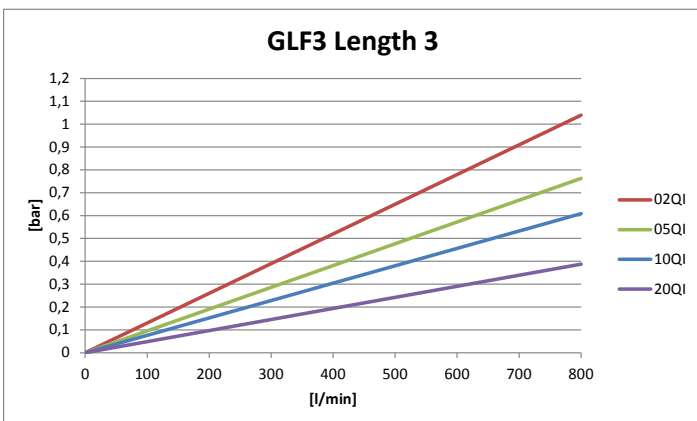
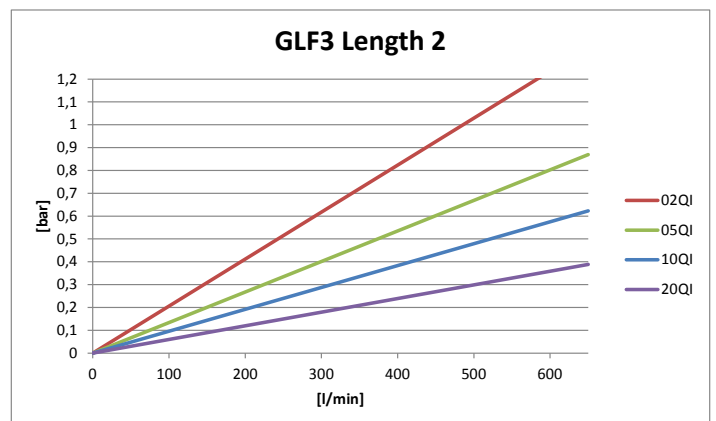
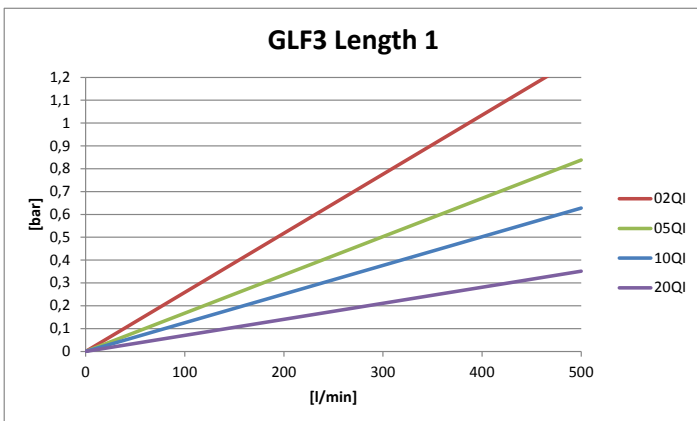
# GLF *iprotect*® Series

## Size 2 & 3 Tanktop Mounted Return Line Filters

### GLF - Size 2 Pressure Drop Curves



### GLF - Size 3 Pressure Drop Curves



• Pressure drop curves based on 30 cSt

# GLF iprotect® Series

## Size 2 & 3 Tanktop Mounted Return Line Filters

### Ordering information

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8
GLF2	2	10QI	B	P2	G	G20	MF

#### Box 1

Filter size	Tanktop Code
Size 2 (upto 400 l/min)	<b>GLF2</b>
Size 3 (upto 800 l/min)	<b>GLF3</b>

#### Box 2

Filter Length	Code
Length 1	<b>1</b>
Length 2	<b>2</b>
Length 3 (GLF3 only)	<b>3</b>

#### Box 3

Degree of Filtration						
Average filtration ratio $\beta$ (ISO 16889) / particle size $\mu\text{m(c)}$						Media
2	10	75	100	200	1000	Code
N/A	N/A	N/A	N/A	4	4,5	02QI
N/A	N/A	4,5	5	6	7	<b>05QI</b>
N/A	5	7,5	8	9	11	<b>10QI</b>
5	9	15	16	18	21	<b>20QI</b>

#### Box 4

Seal Material	Code
Nitrile	<b>B</b>

• Availability of other Seal types (like Fluoroelastomer) on request.

#### Box 5

Indicator Type	Code
Both Indicator Ports plugged	<b>P2</b>

• Indicators are available separately; See the Spare Indicators table

#### Box 6

Bypass and Indicator Setting	indicator	Code
1.7 bar	1.2 bar	<b>G</b>

• Availability of other settings (like a 3,5 bar Bypass / 2.5 bar Indicator) on request

#### Box 7

Filter Connections		
Connections	GLF2 Code	GLF3 Code
G1 thread - Single Port	<b>G16</b>	
G1¼ thread - Single Port	<b>G20</b>	<b>G20</b>
G1½ thread - Single Port	<b>G24</b>	<b>G24</b>
SAE 2"-3000M Flange - Single Port		<b>R32</b>

• Availability of other Connctions (like Dual Ports) on request

#### Box 8

Options	Code
No options	N
Magnet column	M
Funnel	F
Magnet column & Funnel	<b>MF</b>

• An air breather for the GLF2 is available separately; See the Spare Parts table  
• Availability of other options (like ATEX) on request

Nominal flow (l/min) at viscosity 30cSt				
Filter model	02QI	05QI	10QI	20QI
GLF2 Length 1	125	175	250	300
GLF2 Length 2	175	265	350	400
GLF3 Length 1	200	285	450	500
GLF3 Length 2	250	375	600	650
GLF3 Length 3	375	500	750	800

Highlights Key (denotes part number availability)	Code
Item is standard	<b>123</b>
Item is non-standard	123

# GLF iprotect® Series

## Size 2 & 3 Tanktop Mounted Return Line Filters

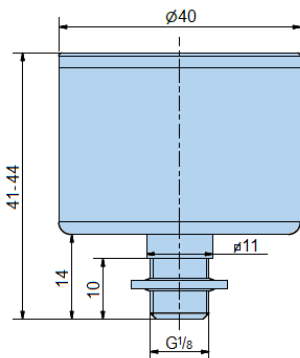
### Ordering information Elements and Spare Parts

Spare Parts	
Description	Part Number
SEAL KIT GLF2 NITRILE	GLFSK200
SEAL KIT GLF2 FLUOROELASTOMER	GLFSK201
SEAL KIT GLF3 NITRILE	GLFSK300
SEAL KIT GLF3 FLUOROELASTOMER	GLFSK301
AIR BREATHER SAB.5101 (GLF2 only)	AB685101

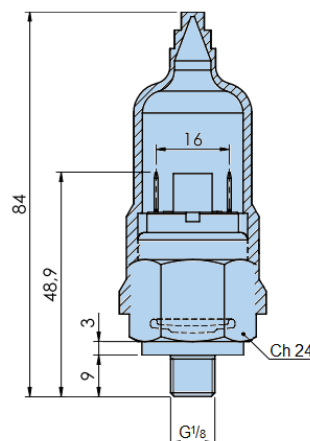
Spare Elements (Nitrile)			
		Bypass 1.7 bar	Bypass 3.5 bar
Model	Media	Part Number	Part Number
GLF2 Length 1	02QI	944846Q	944854Q
	05QI	<b>944848Q</b>	944856Q
	10QI	<b>944850Q</b>	944858Q
	20QI	<b>944852Q</b>	944860Q
GLF2 Length 2	02QI	944847Q	944855Q
	05QI	<b>944849Q</b>	944857Q
	10QI	<b>944851Q</b>	944859Q
	20QI	<b>944853Q</b>	944861Q
GLF3 Length 1	02QI	944862Q	944874Q
	05QI	<b>944865Q</b>	944877Q
	10QI	<b>944868Q</b>	944880Q
	20QI	<b>944871Q</b>	944883Q
GLF3 Length 2	02QI	944863Q	944875Q
	05QI	<b>944866Q</b>	944878Q
	10QI	<b>944869Q</b>	944881Q
	20QI	<b>944872Q</b>	944884Q
GLF 3 Length 3	02QI	944864Q	944876Q
	05QI	<b>944867Q</b>	944879Q
	10QI	<b>944870Q</b>	944882Q
	20QI	<b>944873Q</b>	944885Q

Spare Indicators		
Model	1.2 bar setting Part Number	2.5 bar setting Part Number
G2 - Pressure Gauge	<b>FMUG2EBPG02L</b>	FMUG2JBPG02L
S1 - Pressure Switch 48V N.O.	<b>LPSS1EBG02MRP1</b>	LPSS1JBG02MRP1
S2 - Pressure Switch 48V N.C.	<b>LPSS2EBG02MRP1</b>	LPSS2JBG02MRP1
S6 - Pressure Switch 250V SPDT	<b>LPSS6EBG02APCR1</b>	LPSS6JBG02APCR1

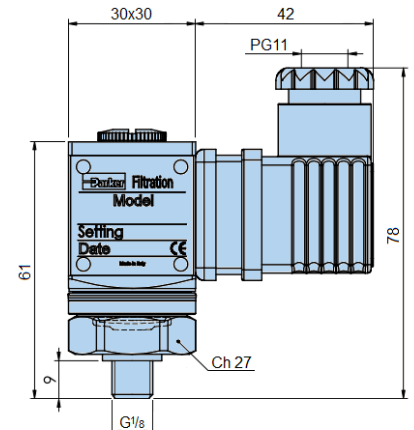
G2 - Pressure Gauge



S1/S2 - Pressure Switch



S6 - Pressure Switch





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