



filter-technics



# Model GA

Brochure: FDHB324UK



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Filter-Technics bvba  
Adrian Van Roeyenstraat 28- 2070 Zwijndrecht - Belgium  
Phone : +32 32540567 - Fax : +32 32540495  
[info@filter-technics.be](mailto:info@filter-technics.be) - [www.filter-technics.be](http://www.filter-technics.be)

# Model GA

## Specification

**Operation pressure**  
30 bar

**Assembly**  
In-line

**Connections**  
Threaded BSP ports  
SAE ports on request

**Filter housing**  
Aluminium housing  
Steel cover

**Seal material**  
Nitrile, fluorelastomer, neoprene

**Operating temperature range**  
-40 to +120

**Bypass setting**  
Opening pressure 0.8 / 1.5 or 2 bar  
Other settings on request

**Flow fatigue characteristics**  
Filter media is supported so that the optimum fatigue life time is achieved

**Filtration media**  
Microglass III and Ecoglass III for *LEIF*® elements  
Also available 10 um cellulose and 40 um stainless steel mesh

**Element collapse pressure**  
10 bar (ISO2941)

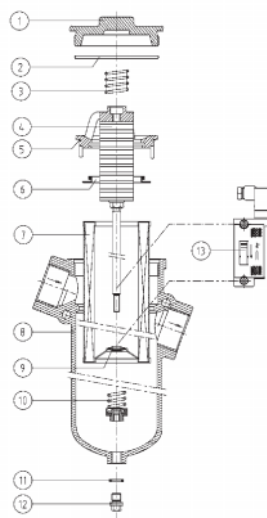
**Differential pressure monitoring**  
Setting 0.7 (for 0.8 bar bypass) and 1.2 bar (for 2 and 1.5 bar bypass bypass setting)  
Visual or Visual & Electrical indicator

**Options**  
On request

**Magnetic pack**  
Standard

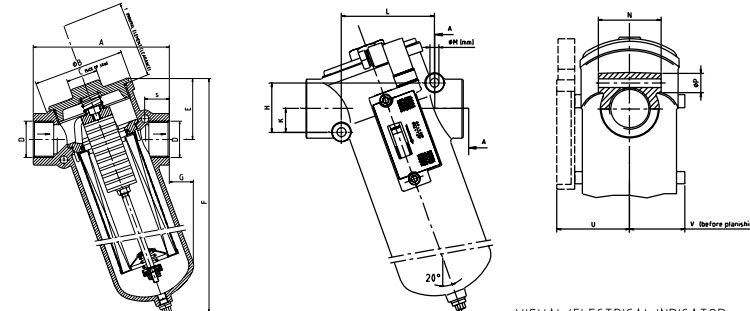
**Filter element**  
*LEIF*® element with reusable metal element sleeve  
Optional conventional style element with steel end caps  
The *LEIF*® element is patented and safeguards the use of genuine parts  
Note: *LEIF*® element can be used with mineral and HEES type oils  
For other fluids consult Parker Filtration  
*LEIF*® contributes to ISO14001

Assembly parts	
Item number	Description
1	Filter cover
2	Cover seal
3	Top-spring
4	Insert
5	Insert seal
6	By-pass seal
7	Filter element
8	Filter Housing
9	Element seal
10	By-pass set
11	Bonded seal
12	Plug
13	Indicator

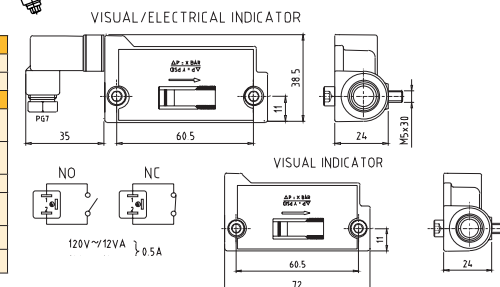


## Installation Details

Type	A	B	C	Dimensions																	
				D		E	F	G	H	K	L	M	N	P	S	T	U	V	Kg		
				BSP ISO228	SAE																
GA length 0	150	106	32	G <sup>1</sup> / <sub>4</sub>	12	70	180	3	50	24	95	9	44	20	28	143	86	93	2.1		
GA length 2	160	106	32	G1	16	70	235	18	50	24	95	9	54	20	29	194	86	63	2.6		
GA length 3	160	106	32	G1	16	70	275	29	50	24	95	9	54	20	29	238	86	63	3.2		
GA length 4	160	106	32	G <sup>1</sup> / <sub>4</sub>	20	70	325	46	50	24	95	9	64	20	29	288	86	63	4.0		
GA length 6	230	150	55	G <sup>1</sup> / <sub>2</sub>	24	105	390	35	75	37	140	12	72	25	43	338	110	88	7.9		
GA length 7	230	150	55	G <sup>1</sup> / <sub>2</sub>	24	105	460	58	75	37	140	12	72	25	43	408	110	88	9.0		

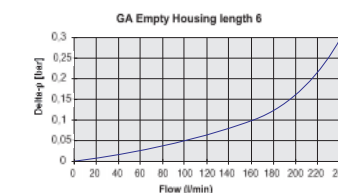
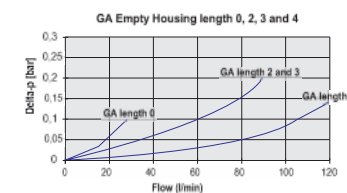


Visual Indicator - Manifold connected to filter housing	
Code (0.7 bar setting)	FMUD5BBAXXXL
Code (1.2 bar setting)	FMUD5EBAXXXL
Electrical Indicator - Manifold connected to filter housing	
Code (0.7 bar setting and NO type switch)	FMUE5BBAXXXL
Code (1.2 bar setting and NO type switch)	FMUE5EBAXXXL
Electric rating	120Vac/12VA or 100Vdc/10W
Electrical connection	AMP terminal 6.3x0.8 with plugged cable gland
Protection	IP65
Switch type	NO (NC on request)



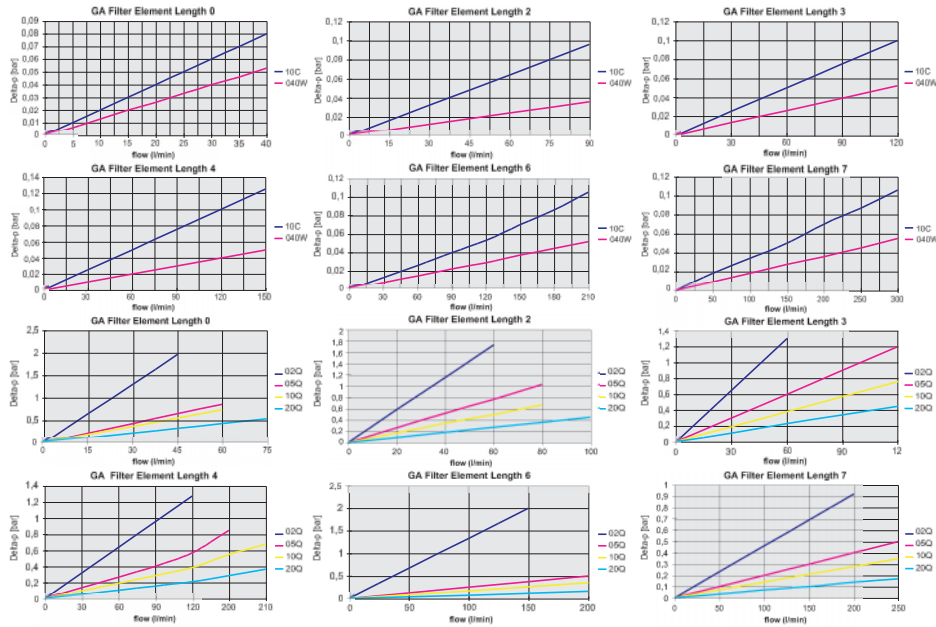
## Pressure Drop Curves

Degree of Filtration							Media Code
Average Filtration Beta Ratio β (ISO 16889)/Particle Size um [c]							
β <sub>x(c)</sub> =2	β <sub>x(c)</sub> =10	β <sub>x(c)</sub> =75	β <sub>x(c)</sub> =100	β <sub>x(c)</sub> =200	β <sub>x(c)</sub> =1000		
% Efficiency, Based on the above Beta Ratio (β <sub>x</sub> )							
50.0 %	90.0 %	98.7 %	99.0 %	99.5 %	99.8 %		
N/A	N/A	N/A	N/A	N/A	4.5	02Q/02QL	
N/A	N/A	4,5	5	6	7	05Q/05QL	
N/A	6	8,5	9	10	12	10Q/10QL	
6	11	17	18	20	22	20Q/20QL	



# Model GA

## Pressure Drop Curves



Element	Nominal	Filtration fineness absolute - Q3 glassfibre βx(c) > 200				Stainless steel mesh
	Cellulose	Q02 (2 micron)	Q05 (5 micron)	Q10 (10 micron)	Q20 (20 micron)	
	Code	Code	Code	Code	Code	Code
GA length 0	TXX-10-B	TXW-2-B	TXW-5-B	TXW-10-B	TXW-20-B	ST-40-B
Part number spare element	937720	937752Q	937753Q	937788Q	937789Q	937821
GA length 2	TXX2-10-B	TXW2-2-B	TXW2-5-B	TXW2-10-B	TXW2-20-B	ST2-40-B
Part number spare element	937721	937751Q	937754Q	937787Q	937790Q	937820
GA length 3	TXX3-10-B	TXW3-2-B	TXW3-5-B	TXW3-10-B	TXW3-20-B	ST3-40-B
Part number spare element	937722	937750Q	937755Q	937786Q	937791Q	937819
GA length 4	TXX3D-10-B	TXW3D-2-B	TXW3D-5-B	TXW3D-10-B	TXW3D-20-B	ST3D-40-B
Part number spare element	937723	937749Q	937756Q	937785Q	937792Q	937818
GA length 6	TXX4-10-B	TXW4-2-B	TXW4-5-B	TXW4-10-B	TXW4-20-B	ST4-40-B
Part number spare element	937725	937747Q	937758Q	937783Q	937794Q	937816
GA length 7	TXX5-10-B	TXW5-2-B	TXW5-5-B	TXW5-10-B	TXW5-20-B	ST5-40-B
Part number spare element	937726	937746Q	937759Q	937782Q	937795Q	937815

Element	Filtration fineness absolute - LEIF® - Q3 glassfibre βx(c) > 200			
	Q02 (2 micron)	Q05 (5 micron)	Q10 (10 micron)	Q20 (20 micron)
	Code	Code	Code	Code
GA length 0	TXWL-2	TXWL-5	TXWL-10	TXWL-20
Part number spare element	937822Q	937885Q	937884Q	937883Q
GA length 2	TXWL2-2	TXWL2-5	TXWL2-10	TXWL2-20
Part number spare element	937823Q	937880Q	937881Q	937882Q
GA length 3	TXWL3-2	TXWL3-5	TXWL3-10	TXWL3-20
Part number spare element	937824Q	937879Q	937878Q	937877Q
GA length 4	TXWL3D-2	TXWL3D-5	TXWL3D-10	TXWL3D-20
Part number spare element	937825Q	937850Q	937851Q	937876Q
GA length 6	TXWL4-2	TXWL4-5	TXWL4-10	TXWL4-20
Part number spare element	937827Q	937848Q	937853Q	937874Q
GA length 7	TXWL5-2	TXWL5-5	TXWL5-10	TXWL5-20
Part number spare element	937828Q	937847Q	937854Q	937873Q

## Preferred Products Table

### Ordering example BGAH filter

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8
GA	4	05QL	B	E1	E	G16	1

Note: Filter with LEIF® element and sleeve

### Box 1

Code	GA
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### Box 2 - Filter Type

Housing	code
GA 1-30	0
GA 1-60	2
GA 1-90	3
GA 1-120	4
GA 2-170	6
GA 2-230	7

### Box 4

Seal material	code
Nitrile	B
Neoprene	N
Fluoroelastomer	V

### Box 6

By-pass Valve	
By-pass Valve	Code
0.8 bar	B
1.5 bar	E
2.0 bar	H
Blocked bypass	X
Other bypass settings	on request

### Box 8

Options	Code
Standard	1
No magnets	5

### Box 3 - Degree of Filtration

Element	Nominal	Filtration fineness absolute				Stainless steel mesh
	Cellulose	Q3 glassfibre βx(c) > 200				
	10μm	Q02 (2 micron)	Q05 (5 micron)	Q10 (10 micron)	Q20 (20 micron)	40μm
	code	code	code	code	code	code
Disposable element	10C	02Q	05Q	10Q	20Q	040W
LEIF® element		02QL	05QL	10QL	20QL	

### Box 5

Indicator	Code
Visual indicator (mounted on right side), indicator port left side not machined	D1
Visual indicator (mounted on left side), indicator port right side not machined	D2
Visual indicator (mounted on right side), indicator port left side plugged	D3
Visual indicator (mounted on left side), indicator port right side plugged	D4
Visual Electrical indicator (mounted on right side), indicator port left side not machined	E1
Visual Electrical indicator (mounted on left side), indicator port right side not machined	E2
Visual Electrical indicator (mounted on right side), indicator port left side plugged	E3
Visual Electrical indicator (mounted on left side), indicator port right side plugged	E4
No indicator, indicator ports not machined	N
No indicator, indicator port R plugged	P
No indicator, indicator port L plugged	PL
No indicator, indicator ports L + R plugged	P2
Other settings for indicators on request	on request

### Box 7

Filter Connection	
Ports	Code
ISO 228-G <sup>3</sup> / <sub>4</sub> " (BSP) (GA length 0 and 2)	G12
ISO 228-G1" (BSP) (GA length 3 and 4)	G16
ISO 228-G1 <sup>1</sup> / <sub>4</sub> " (BSP) (GA length 6 and 7)	G20
ISO 228-G1 <sup>1</sup> / <sub>2</sub> " (BSP) (GA length 6 and 7)	G24