

GA Series

Medium Pressure Filters

Max. 230 l/min. 30 bar



Contamination-proof and customizable filter solution

Designed for various applications. In-out filter principle means there is no possibility for contaminated leak back into the system. Supplied with magnetic pre-filtration. Customizable for filter coolants thus ideal for metal cutting equipment. Visual or electronic differential pressure indicators and environmentally friendly filtration elements available.



Contact Information:

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Applications:

- Gearboxes
- Bypass filtration
- Stone crushers
- Lube oil systems
- Metal cutting equipment

Specification

Assembly:

In-line filter

Maximum operating pressure:

30 bar

Nominal flow rate (30 cSt):

230 l/min (13.8 m³/h)

Connections:

Threaded BSP ports. SAE ports available by request.

Seal material:

Nitrile, optionally Fluoroelastomer or Neoprene

Operating temperature:

-40°C...+100°C with Nitrile seals, -20°C...+120°C with Fluoroelastomer seals. For other temperatures consult Parker Filtration.

Housing material:

Aluminium

Weight:

See dimensions table

Bypass setting:

Opening pressure standard 1.5 bar, optionally 0.8 bar, 2.0 bar or blocked bypass

Filtration materials:

- Ecoglass for *LEIF*[®] element with reusable metal element sleeve. *LEIF*[®] contributes to ISO14001.
- Glassfibre Microglass III
- Resin impregnated cellulose paper 10 µm nominal
- Cleanable metal mesh

Magnetic pack:

Standard

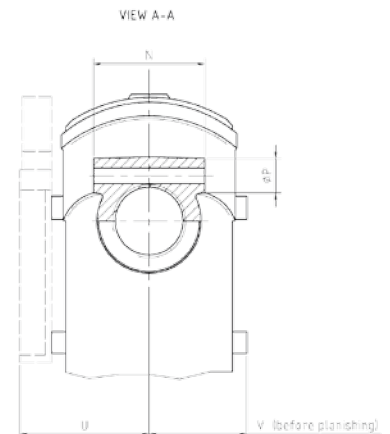
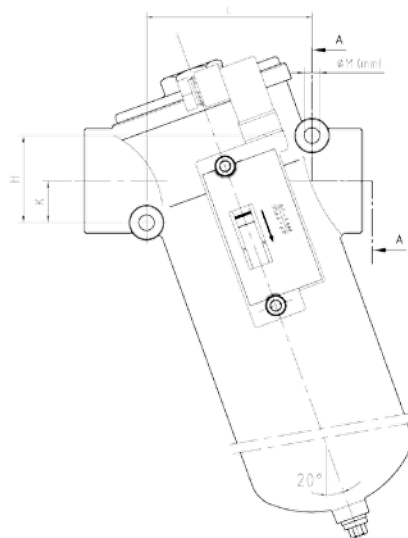
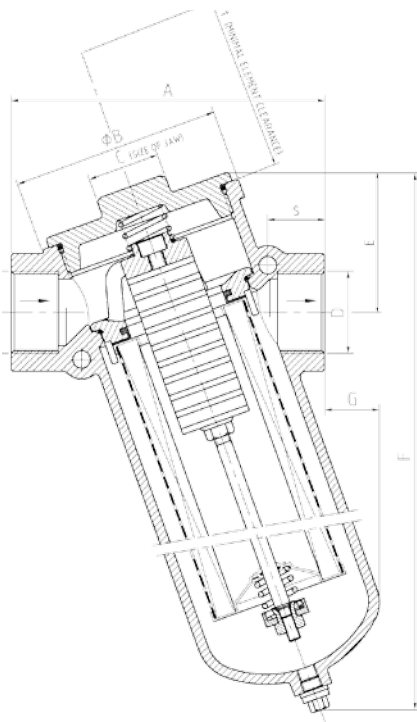
Differential pressure indicators:

Visual or Visual-electrical indicator

Setting 1.2 bar (for 2.0 bar and 1.5 bar bypass) or 0.7 bar (for 0.8 bar bypass)

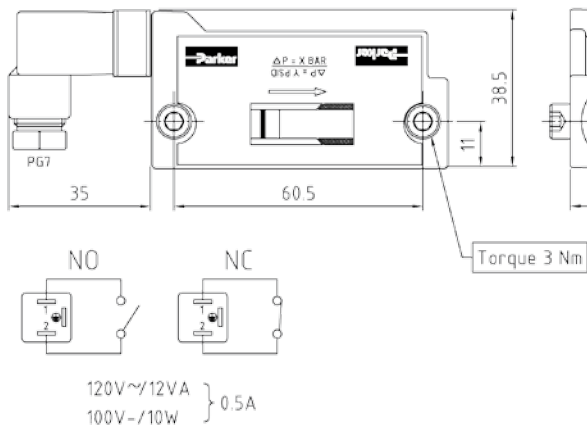
Fluid compatibility:

Suitable for use with regular hydraulic and lubrication oils. For other fluids consult Parker Filtration.

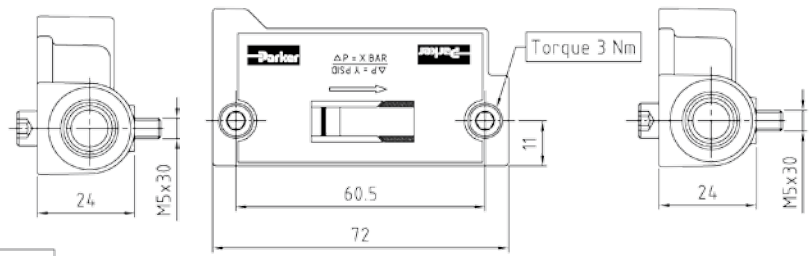


Type	A	B	C	D		E	F	G	H	K	L	M	N	P	S	T	U	V	Kg
				BSP ISO228	SAE														
GA1-30	150	106	32	G¾	12	70	180	3	50	24	95	9	44	20	28	143	86	63	2.1
GA1-60	160	106	32	G1	16	70	235	18	50	24	95	9	54	20	29	194	86	63	2.6
GA1-90	160	106	32	G1	16	70	275	29	50	24	95	9	54	20	29	238	86	63	3.2
GA1-120	160	106	32	G1¼	20	70	325	46	50	24	95	9	64	20	29	288	86	63	4.0
GA2-170	230	150	55	G1½	24	105	390	35	75	37	140	12	72	25	43	338	110	88	7.9
GA2-230	230	150	55	G1½	24	105	460	58	75	37	140	12	72	25	43	408	110	88	9.0

VISUAL/ELECTRICAL INDICATOR



VISUAL INDICATOR



Visual Indicator - Manifold connected to filter housing

Code (0.7 bar setting)	FMUD5BBAXXXL
Code (1.2 bar setting)	FMUD5EBAXXXL

Visual / 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 6.3 x 0.8 with plugged cable gland
Protection	IP65
Switch type	NO (NC on request)

Pressure Drop Curves for Housing

$$\Delta p_{\text{total}} = \Delta p_{\text{housing}} + \Delta p_{\text{element}}$$

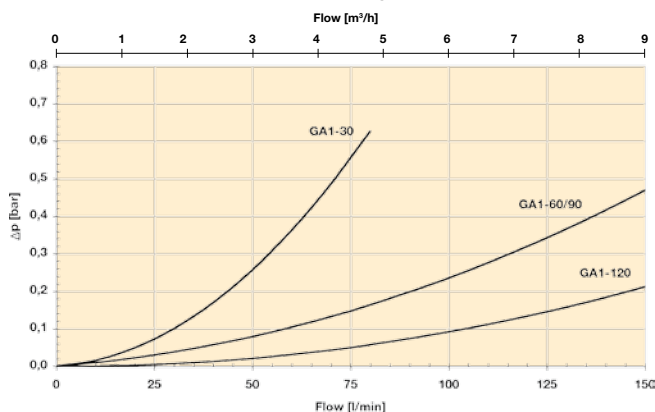
The recommended level of the initial pressure drop for this filter is maximum 0.5 bar.

Δp -curves are measured at 30 cSt.

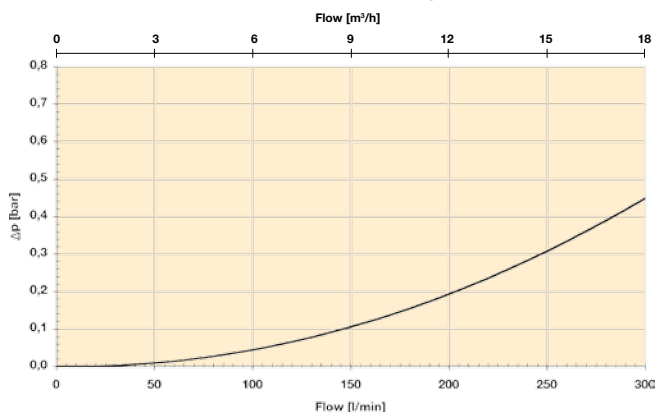
If the medium used has a viscosity different from 30 cSt, pressure drop over the element can be estimated as follows:

$$\Delta p_{\text{total}} = \Delta p_{\text{housing}} + \Delta p_{\text{element}} \times \frac{\text{working viscosity}}{30 \text{ cSt}}$$

GA1 housings



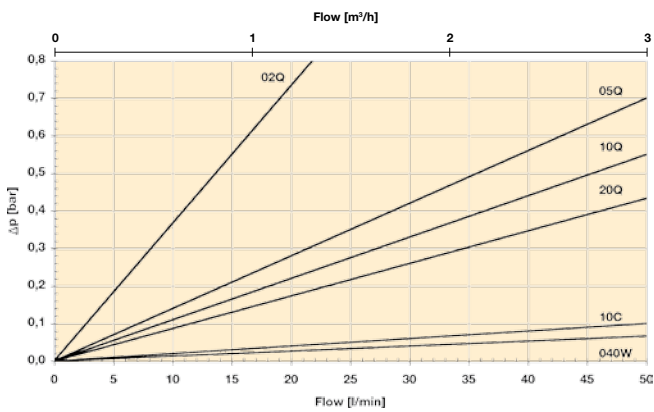
GA2-170/230 housings



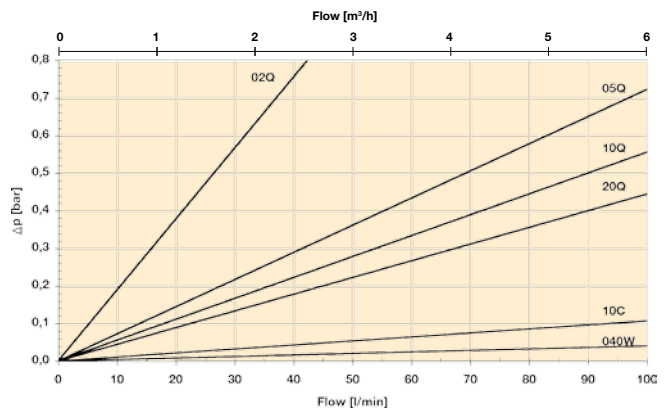
GA Series

Pressure Drop Curves for Elements

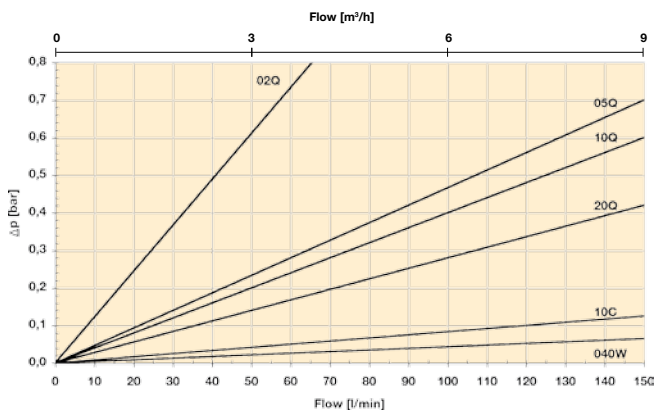
GA1-30 elements (Length 0)



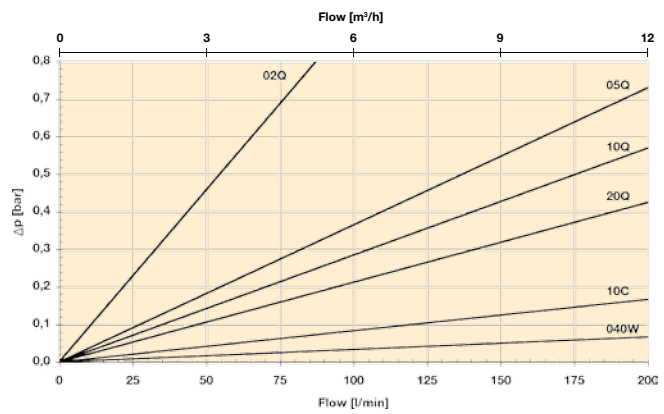
GA1-60 elements (Length 2)



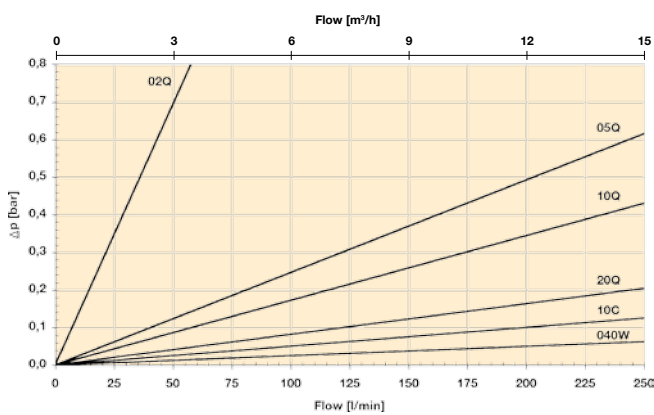
GA1-90 elements (Length 3)



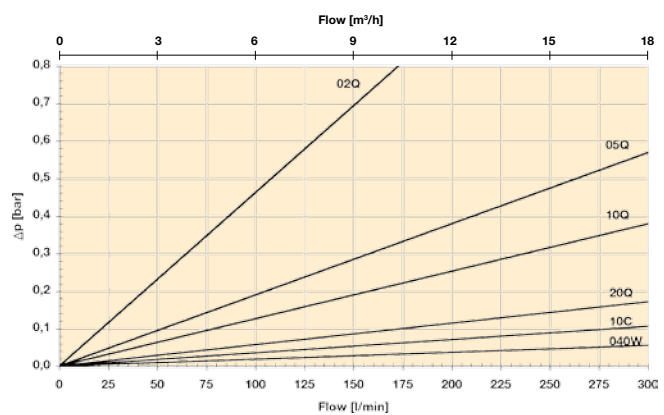
GA1-120 elements (Length 4)



GA2-170 elements (Length 6)



GA2-230 elements (Length 7)



GA Series

Medium Pressure Filters

Product Description for GA

Complete Filter:

Table 1	Table 2	Table 3	Table 4	Table 5	Table 6	Table 7	Table 8
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Table 1

FILTER TYPE	
Model	CODE
Medium pressure filter, aluminium	GA

Table 2

FILTER SIZE	
Housing size - element length	CODE
1-30	0
1-60	2
1-90	3
1-120	4
2-170	6
2-230	7

Table 3

DEGREE OF FILTRATION	
Element type	CODE
Microglass III	
Glassfibre 2 µm	02Q
Glassfibre 5 µm	05Q
Glassfibre 10 µm	10Q
Glassfibre 20 µm	20Q
LEIF® elements	
Glassfibre 2 µm	02QL
Glassfibre 5 µm	05QL
Glassfibre 10 µm	10QL
Glassfibre 20 µm	20QL
Other medias	
Cellulose 10 µm (nom)	10C
Cleanable metal mesh 40 µm	040W

Table 4

SEAL TYPE	
Seal material	CODE
Nitrile	B
Fluoroelastomer	V
Neoprene	N

Table 5

INDICATORS	
Options	CODE
Visual indicator on right*	D3
Visual indicator on left*	D4
Visual-electrical indicator on right*	E3
Visual-electrical indicator on left*	E4
Both indicator ports plugged	P2

* Indicator ports on other side machined and plugged.

Table 6

BYPASS VALVE	
Bypass/indicator setting	CODE
0.8 bar/0.7 bar	B
1.5 bar/1.2 bar	E
2.0 bar/1.2 bar	H
No/No	X

Table 7

FILTER CONNECTIONS	
Port size	CODE
G $\frac{3}{4}$ (length 0)	G12
G1 (length 2 and 3)	G16
G1 $\frac{1}{4}$ (length 4)	G20
G1 $\frac{1}{2}$ (length 6 and 7)	G24

Table 8

OPTIONS	
Options	CODE
With bypass and magnets	1
No bypass, with magnets	2
With bypass, no magnets	5
No bypass, no magnets	6

CONVENTIONAL TYPE REPLACEMENT ELEMENTS WITH NITRILE SEALS

Element length	Housing size	Microglass III				Cellulose 10 µm (nom)	Cleanable metal mesh 40 µm
		02Q	05Q	10Q	20Q		
0	1 - 30	937752Q	937753Q	937788Q	937789Q	937720	937821
2	1 - 60	937751Q	937754Q	937787Q	937790Q	937721	937820
3	1 - 90	937750Q	937755Q	937786Q	937791Q	937722	937819
4	1 - 120	937749Q	937756Q	937785Q	937792Q	937723	937818
6	2 - 170	937747Q	937758Q	937783Q	937794Q	937725	937816
7	2 - 230	937746Q	937759Q	937782Q	937795Q	937726	937815

LEIF® REPLACEMENT ELEMENTS

Element length	Housing size	Ecoglass III			
		02QL	05QL	10QL	20QL
0	1 - 30	937822Q	937885Q	937884Q	937883Q
2	1 - 60	937823Q	937880Q	937881Q	937882Q
3	1 - 90	937824Q	937879Q	937878Q	937877Q
4	1 - 120	937825Q	937850Q	937851Q	937876Q
6	2 - 170	937827Q	937848Q	937853Q	937874Q
7	2 - 230	937828Q	937847Q	937854Q	937873Q

SPARE PARTS

Seal kit	CODE	
Seal material	GA0-4	GA6-7
Nitrile	2049010009	2049010010
Fluoroelastomer	2049010031	2049010032
Neoprene	2049010038	2049010039

Please note the bolded options reflect standard options with reduced lead-time.