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## Self Cleaning Filter

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### Series S2



### Data-Sheet

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**DN 20 (3/4") – DN 100 (4")**

Stand 03.2018

## General

Self-cleaning filters are designed specifically to provide efficient filtration for liquids, including those of high viscosity, requiring continuous filtration without interruption to the flow during the cleaning process. There is no operator contact with the process fluid. High quality stainless steel elements are highly effective in removing contaminant particles as small as 25 micron ( $\mu\text{m}$ ).

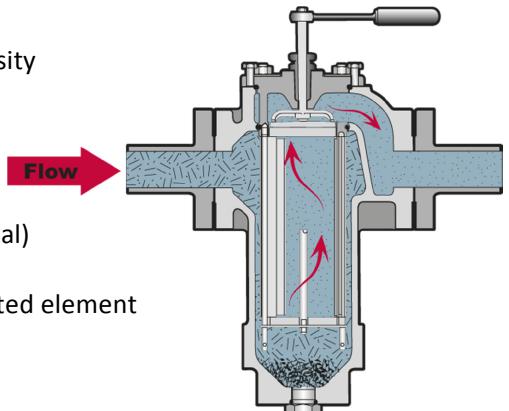
In operation the liquid enters the body and flows through the element from outside to inside. Debris is collected on the outside of the wedge wire or perforated element, which is cleaned without flow interruption by the rotation of element against fixed scraper blades. The debris accumulated during rotation is deposited into the bottom of the filter body from where it is periodically discharged, either manually or automatically.

The filter is available for either manual or fully automatic electric or pneumatic operation. The range of optional control devices makes it particularly suitable for continuous processes and for service with high contamination levels.



## Main Features

- Simple efficient cleaning process which minimises disruption to flow
- Minimal amount of liquid loss during cleaning process
- Suitable for practically all liquids including those of high viscosity
- Filtration levels down to 25 micron
- Separate head and bowl secured by Vee clamp allows easy access to element
- Maximum working pressure 13.8 barg at 50°C
- Maximum working temperature 260°C (Subject to seal material)
- Available in cast iron or stainless steel
- High quality 316 stainless steel wound wedge wire or perforated element



## General safety instructions



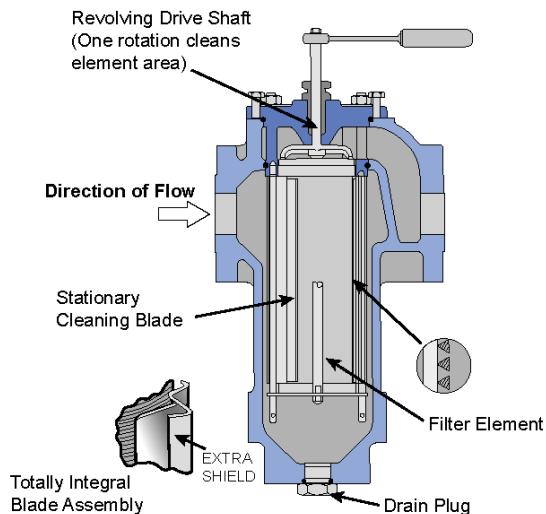
- To prevent accidents, the installation, connection and commissioning may only be carried out by authorized and qualified personnel.



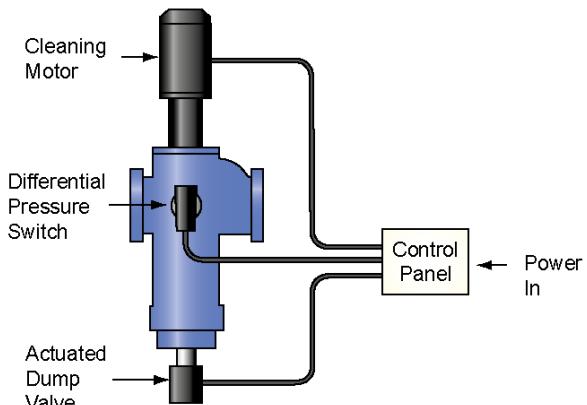
**Note:**

1. When installed in open air, the filter must be protected from frost.
2. The flow depends on the dirt load and fineness.

### Functionality



### Automation



## Product-details

Model	CI / SS	SS / SS
Head Material	Cast Iron BS EN1561 / EN-JL 1030	Cast stainless steel BS 1504 316 C16
Bowl Material	Stainless steel BS 1449 Grd 316 S31	Stainless steel BS 1449 Grd 316 S31
Max. Working pressure	13.8 barg at 50°C	13.8 barg at 50°C
Element	316 SS	316 SS
Internals	316 SS	316 SS
Drain Plug	316 SS	316 SS
Seals	Viton® (-20°C to +200°C)	Viton® (-20°C to +200°C)
Body Colour	Blue	Self
Filtration degree		
Perforated Element	(round / oval) 60, 100, 200, 300, 500, 800, 1000 µm	
Wedge-Wire Element	25, 50, 80, 100, 150, 200, 250, 300, 400, 500, 1000, 1500, 2000, 3000 µm	

Viton is a registered trademark of DuPont Performance Elastomers.

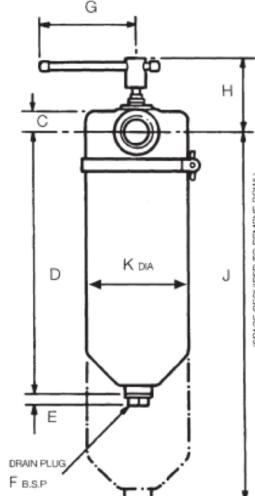
### Please note:



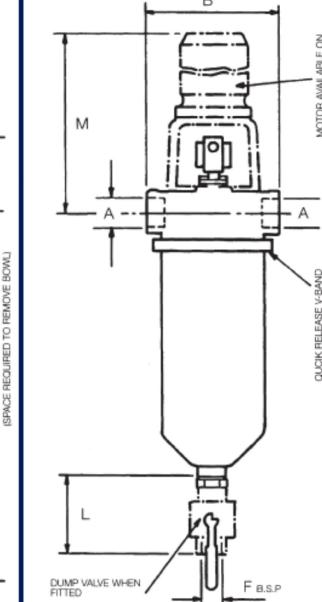
1. These specifications refer to standard products. Alternative materials for bodies (e.g. monel, hastelloy) and seals (e.g. EPDM, PTFE) are available on request.
2. Working pressure is stated at 50°C. To verify suitability of this equipment above this temperature or below 0°C, please contact our technical sales desk.
3. Whilst alternative seal materials e.g. Nitrile, EPDM, PTFE are available and can be used to offer a wide range of chemical compatibility and working temperatures up to 260°C, it is recommended that such applications are discussed with our technical sales desk.

## Dimension

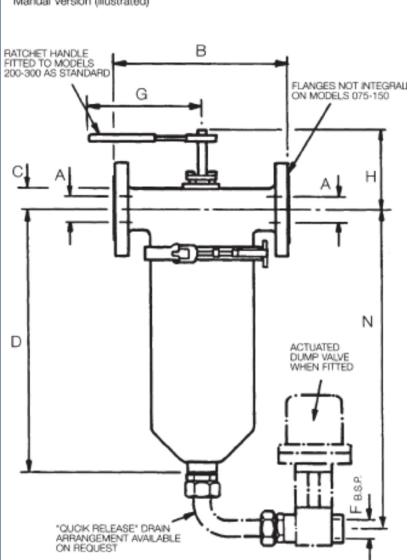
**MODEL 075-100**  
Screwed connections  
Available in manual version only



**MODEL 125-300**  
Screwed connections  
Motorised Version shown



**MODEL 075-300**  
Flanged connections  
Manual Version (illustrated)



### Threaded BSP or NPT (Sizes in mm)

A Pipe Size	Mo- del	B	C	D	E	F	G	H	J	K	L	M	N	Element Area	Weight (Cast Iron*)
20 mm ( $\frac{3}{4}$ "")	075	150	24	273	13	$\frac{1}{2}$ " BSP	185	80	450	114	---	---	---	319 cm <sup>2</sup>	7 kg
25 mm (1")	100	150	24	273	13	$\frac{1}{2}$ " BSP	185	80	450	114	---	---	---	319 cm <sup>2</sup>	7 kg
32 mm (1 $\frac{1}{4}$ ")	125	208	32	404	20	1" BSP	185	133	640	160	110	445	490	673 cm <sup>2</sup>	11,2 kg
40 mm (1 $\frac{1}{2}$ ")	150	208	32	404	20	1" BSP	185	133	640	160	110	445	490	673 cm <sup>2</sup>	11,2 kg
50 mm (2")	200	220	40	458	20	1" BSP	185	133	665	160	110	447	540	673 cm <sup>2</sup>	19 kg

### Flanged BS10, BS4504, ANSI or DIN (Sizes in mm)

A Dia. Bore	Mo- del	B	C	D	E	F	G	H	J	K	L	M	N	Element Area	Weight (Cast Iron*)
32 mm (1 $\frac{1}{4}$ ")	125	270	32	404	20	1" BSP	185	133	640	160	110	445	490	673 cm <sup>2</sup>	11 kg
40 mm (1 $\frac{1}{2}$ ")	150	270	32	404	20	1" BSP	185	133	640	160	110	445	490	673 cm <sup>2</sup>	11 kg
50 mm (2")	200	270	40	458	20	1" BSP	185	133	665	160	110	447	540	673 cm <sup>2</sup>	25 kg
80 mm (3")	300	300	56	575	20	2" BSP	185	148	895	190	160	461	710	1140 cm <sup>2</sup>	41 kg
100 mm (4")	400	4" (100mm) Filter is 2 x 3" units running in parallel, joined via manifold pipe work. Contact technical sales for further information.													

\*) Weights based on Cast Iron units.

## GEFA Certificates

### ISO 9001 - OHSAS 18001 - ISO 14001

Zusätzlich zum Qualitätsmanagementsystem **ISO 9001** hat die GEFA Prozesstechnik GmbH jetzt auch für die Bereiche Arbeitsschutz (**OHSAS 18001**) und Umweltmanagement (**ISO 14001**) ein sichtbares Zeichen:



Die **OHSAS 18001** und **ISO 14001** Zertifizierungen sind weltweit anerkannte Standards mit dem Fokus auf Personenschutz, Arbeitssicherheit, Gesundheitsvorsorge und Umweltschutz.