SF1040 Series

Low Pressure Filters Max. 1400 l/min. 10 bar



Multi-purpose filter for gas and high flow fluid systems

Strong welded steel construction housing features DN80 or DN100 connections. Several media options including PED 3 classified versions for gas applications. As options available safety filter to secure filtration even in by pass situations, and differential pressure indicator for accurate operation control.



Contact Information:

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Applications:

- Lubricating oil filter for industrial systems
- Gas fine filter for combustion engines
- Fuel oil filter for high flow systems
- Large in line low-pressure filter for hydraulic systems



Specification

Assembly:

In-line filter, vertical installation or optionally horizontal installation. Includes 2 elements.

Maximum operating pressure:

10 bar

Nominal flow rate (30 cSt):

1400 l/min (84 m³/h)

Connections:

Flanges DN80/PN16 or DN100/PN16

Seal material:

Fluoroelastomer

Operating temperature:

-20°C...+120°C, with Fluoroelastomer seals,

-20°C...+160°C with metal mesh elements and Fluoroelastomer seals.

Housing material:

Steel or stainless steel

Weight:

100 kg

Bypass valve:

Standard without bypass. Optionally opening pressure 2.0 bar.

Filtration materials:

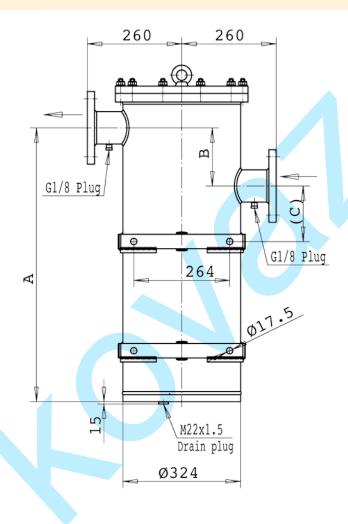
- Glassfibre Microglass III
- Resin impregnated cellulose paper 15 µm nominal
- Cleanable metal mesh

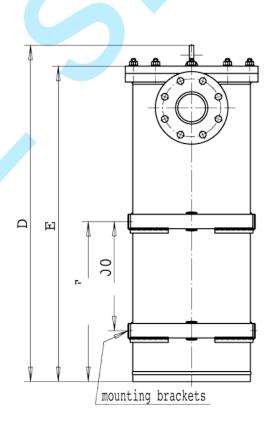
Indicator options:

Visual, electrical or electronic indicator requires an indicator block. For details see indicator options table in product description page and catalogue section 4.

Fluid compatibility:

Suitable for use with regular hydraulic and lubrication oils and fuel oils. For heavy fuel oil applications, please specify option P2 (see table 8 in product description) which ensures that filters are delivered with documentation according PED 97/23/EC category II. Respectively for combustible gas applications, specify option P3 for PED category III. For other fluids consult Parker Filtration.





Туре	Α	В	С	D	E	F
DN80/PN16	753	160	153	932	868	440
DN100/PN16	786	186	140	978	914	460



SF1040 Series

Pressure Drop Curves

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

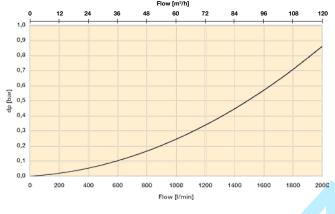
The recommended level of the initial pressure drop for this filter is maximum $0.5\,\mathrm{bar}$.

 Δ p-curves are measured at 30 cSt.

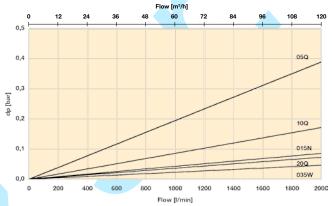
If the medium used has a viscosity different from 30 cSt, pressure drop over the element can be estimated as follows:

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

SF1040 DN80/PN16 housing



SF1040 element pack (2 pcs)





Product Description for SF1040 Complete Filter:

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

Table 1

FILTER TYPE			
Model	CODE		
Single filter	SF1040		
Stainless steel housing	SFR1040		
Horizontal installation	SFH1040		

Table 5

INDICATORS	
Options	CODE
No indicator block	N
Indicator port plugged	Р
Visual indicator	М3
Electrical indicator	T1
Electronic indicator (PNP/N.O.)	F1
Electronic indicator (NPN/N.O.)	F2
ATEX indicator PNP/N.O.	X1

Table 2

FILTER SIZE	
Length/elements	CODE
2 elements housing	2

Table 6

BYPASS VALVE		
Bypass/indicator setting	CODE	
2.0 bar/1.5 bar	Н	
No/No	Х	

Table 3

DEGREE OF FILTRATION		
Element type	CODE	
Microglass III		
Glassfibre 5 µm	05Q	
Glassfibre 10 µm	10Q	
Glassfibre 20 µm	20Q	
Other medias		
Cellulose 15 µm (nom)	015N	
Cleanable metal mesh 35 µm	035W	
Cleanable metal mesh 60 µm	060W	

Table 7

FILTER CONNECTIONS		
Port size	CODE	
DN80 T-port	D80T	
DN80 C-port (both ports to same direction)	D80C	
DN100 T-port	D100T	

Table 4

SEAL TYPE	
Seal material	CODE
Fluoroelastomer	V

Table 8

OPTIONS	
Options	CODE
With bypass	1
No bypass	2
PED category 2	P2
PED category 3	P3
No mounting brackets	NB
Secondary element 60 µm	F

If several options are selected, please add the codes in order listed above.

REPLACEMENT ELEMENTS		
Media code	Order code	
Glassfibre	Microglass III	
05Q	939381Q	
10Q	939382Q	
20Q	939383Q	
Cellulose 15 µm (nom)		
015N	939384	
Cleanable metal mesh		
035W	939385	
060W	939386	

SPARE PARTS			
Seal kit	CODE		
Seal material			
Fluoroelastomer	916045044		
Secondary element	CODE		
Wire mesh 60 µm	939377		

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

