

# DF2070 Series

Duplex Filters

Max. 1800 l/min. 10 bar



## Big and tall for high flow

Welded housing construction with cast iron change over valve section. Compact, low-depth duplex construction for vertical mounting. High flow and good dirt holding capacity combined to low pressure drop. Several media options for heavy fuel oil and lube systems.



## Contact Information:

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FI, FR, IE, IT, PT, SE, SK, UK)  
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## Applications:

- Diesel engine lubricating systems
- High flow industrial lubricating systems
- High flow heavy fuel oil systems as safety filter

**Specification**

**Duplex filter:**

One reservoir can be closed for service, vertical installation. Length 2 includes 2 elements/side and length 3 includes 3 elements/side.

**Connections:**

Square flanges with port size Ø160 mm. Standard delivery includes blind counter flanges.

**Maximum operating pressure:**

10 bar

**Seal material:**

Fluoroelastomer

**Operating temperature:**

-20°C...+100°C. For other temperatures consult Parker Filtration.

**Housing material:**

Steel/cast iron (GJS)

**Weight:**

Length 2: 310 kg

Length 3: 400 kg

**Nominal flow rate (30 cSt):**

Length 2: 1500 l/min (90 m<sup>3</sup>/h)

Length 3: 1800 l/min (132 m<sup>3</sup>/h)

**Bypass valve:**

For the primary filter only, opening pressure 2.0 bar

**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.

**Primary filter:**

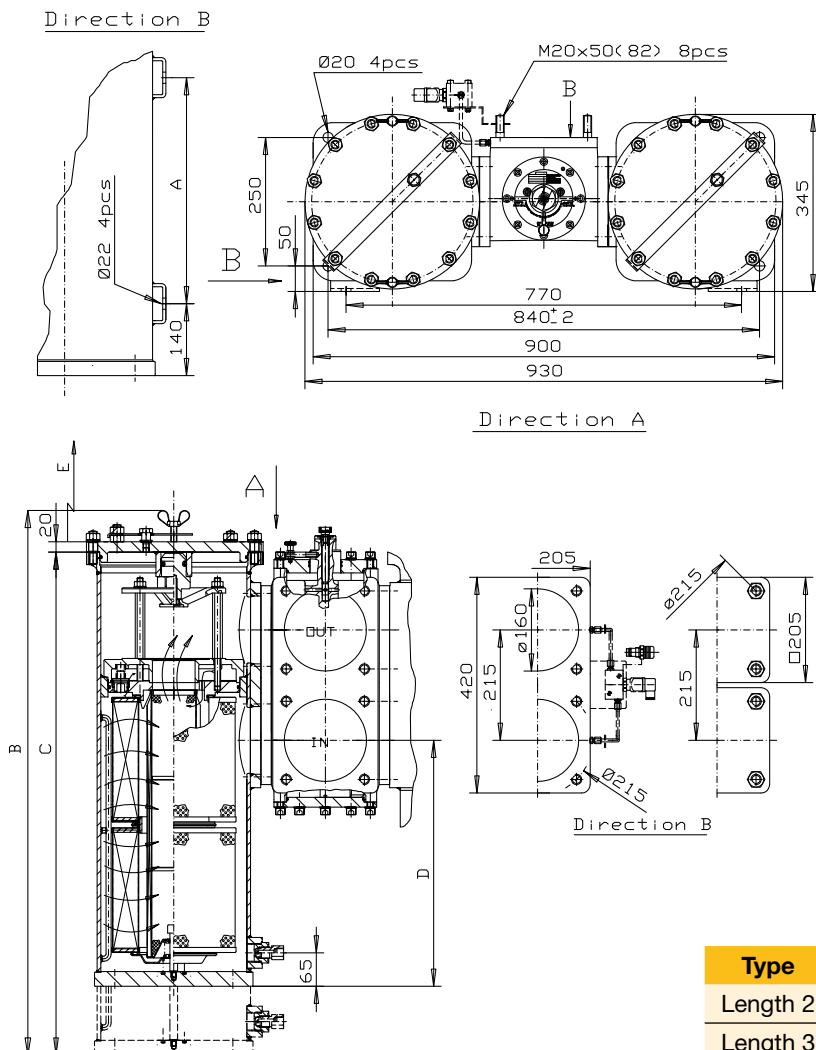
- Length 2: two filter elements per reservoir
- Length 3: three filter elements per reservoir
- Filtration materials
  - Resin impregnated heavy duty cellulose paper 15µm nominal
  - Glassfibre Microglass III
  - Cleanable metal mesh

**Secondary filter:**

- One filter element per reservoir
- Filtration material cleanable wire mesh
- Filtration degree 60 µm

**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. For other fluids consult Parker Filtration.



Type	A	B	C	D	E
Length 2	440	960	845	478	500
Length 3	706	1227	1112	745	560



# DF2070 Series

## Pressure Drop Curves

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

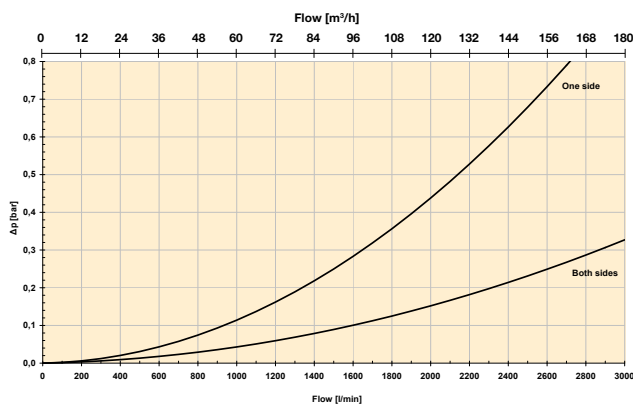
The recommended level of the initial pressure drop for this filter is maximum 0.5 bar.

$\Delta p$ -curves are measured at 30 cSt.

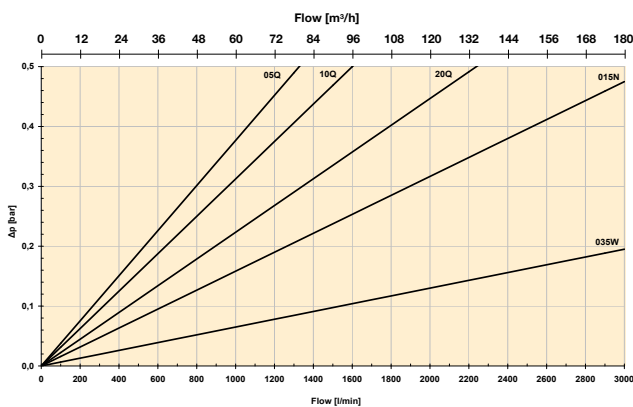
If the medium used has a viscosity different from 30 cSt, pressure drop over the element can be estimated as follows:

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

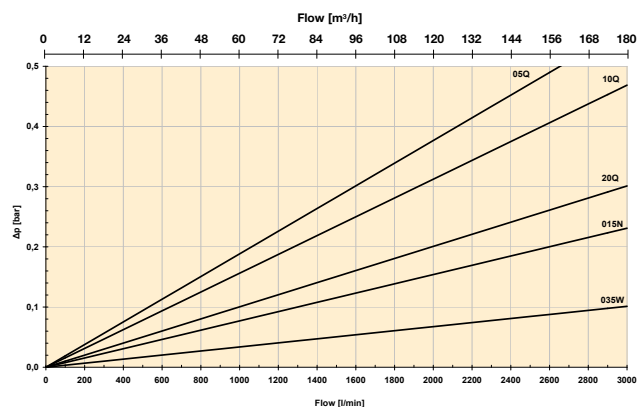
**DF2070 housing**



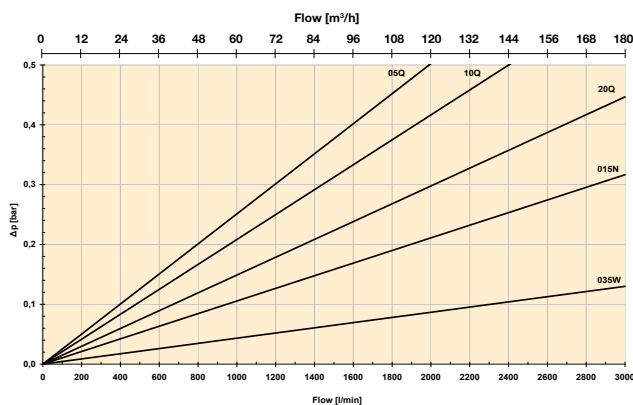
**Length 2 element pack (2 pcs)/one side in use**



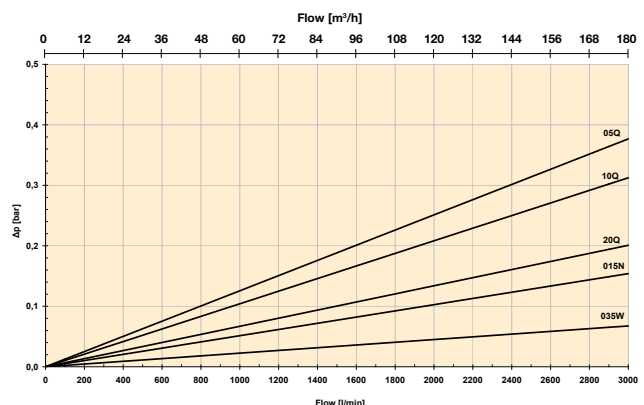
**Length 2 element pack (2 + 2 pcs)/both sides in use**



**Length 3 element pack (3 pcs)/one side in use**



**Length 3 element pack (3 + 3 pcs)/both sides in use**



## Product Description for DF2070

### Complete Filter:

Table 1

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Table 2

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Table 3

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Table 4

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Table 5

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Table 6

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Table 7

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Table 8

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Table 1

FILTER TYPE	
Model	CODE
Duplex filter	<b>DF2070</b>

Table 2

FILTER SIZE	
Length/elements	CODE
2 elements/side	<b>2</b>
3 elements/side	<b>3</b>

Table 3

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

Table 4

SEAL TYPE	
Seal material	CODE
Fluoroelastomer	<b>V</b>

Table 5

INDICATORS	
Options	CODE
No indicator block	<b>N</b>
Indicator port plugged	P
Visual indicator	<b>M3</b>
Electrical indicator	<b>T1</b>
Electronic indicator (PNP/N.O.)	F1
Electronic indicator (NPN/N.O.)	F2

Table 6

BYPASS VALVE	
Bypass/indicator setting	CODE
2.0 bar/1.5 bar	<b>H</b>

Table 7

FILTER CONNECTIONS	
Port size	CODE
Square flange 160 mm	<b>X160</b>

Table 8

OPTIONS	
Options	CODE
With bypass	<b>1</b>
PED category 2	P2

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

REPLACEMENT ELEMENTS	
Media code	Order code
<b>Glassfibre</b>	<b>Microglass III</b>
05Q	939361Q
10Q	<b>939362Q</b>
20Q	<b>939363Q</b>
<b>Cellulose 15 µm (nom)</b>	
015N	939364
<b>Cleanable metal mesh</b>	
035W	939365
060W	939366

SPARE PARTS	
Secondary filter element (60 µm)	CODE
Length 2	939374
Length 3	939375
<b>Seal kits</b>	<b>CODE</b>
For valve assembly	916045064
For vessel (two kits required for complete filter)	916045067

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