

# DF65

Duplex Filters

Max 800 l/min. 25 bar



## Efficient Duplex filter for limited spaces.

The DF65 duplex filter has been designed especially for applications where space is limited. The unique design allows the installation of the filter in almost any position. For very tight height limitations, horizontal mounting position will save on critical available space. New purpose-designed iprotect® elements contain broad filtration area providing low pressure loss, long service life and maximum protection even in cold conditions. Duplex arrangement allows continuous operation and element service to be made when most suitable for the maintenance staff.



## Contact Information:

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[www.parker.com](http://www.parker.com)

## Applications:

- Gearbox lubrication systems
- Turbine lubrication systems
- Propulsion systems



ENGINEERING YOUR SUCCESS.

## Specification

### Duplex filter:

Change-over valve with an open centre position. A locking device for both end positions and the middle position. Safety guards ensure that pressure is released prior to opening the filter.

### Flow direction:

From out to in.

### Connections:

Flanges SAE 2" 3000-M or SAE 2½" 3000-M. Inlet and outlet pressure connections 3/8" for an external differential pressure transmitter.

### Maximum operating pressure:

25 bar

### Seal material:

Fluoroelastomer

### Operating temperature:

-20 ... +120°C

-20... +160°C when using metal mesh elements

### Housing material:

Cast iron (GSJ)

### Weight:

135 kg

### Nominal flow rate (30 cSt):

800 l/min (48 m³/h)

### Bypass valve:

Standard bypass opening pressure 3.5 bar, optional opening pressure 1.7 bar or a blocked bypass.

### Indicator options:

Integrated indicator port. Filter can be equipped with a visual, an electrical or an electronic differential pressure indicator. Standard indicator setting 2.5 bar used with 3.5 bar and blocked bypass; and setting 1.2 bar with 1.7 bar bypass.

### Filter elements:

- iprotect® glassfibre elements, micron ratings(abs): 2 µm, 5 µm, 10 µm and 20 µm
- iprotect® cleanable metal mesh elements, micron ratings(abs): 35 µm and 60 µm

### Fluid compatibility:

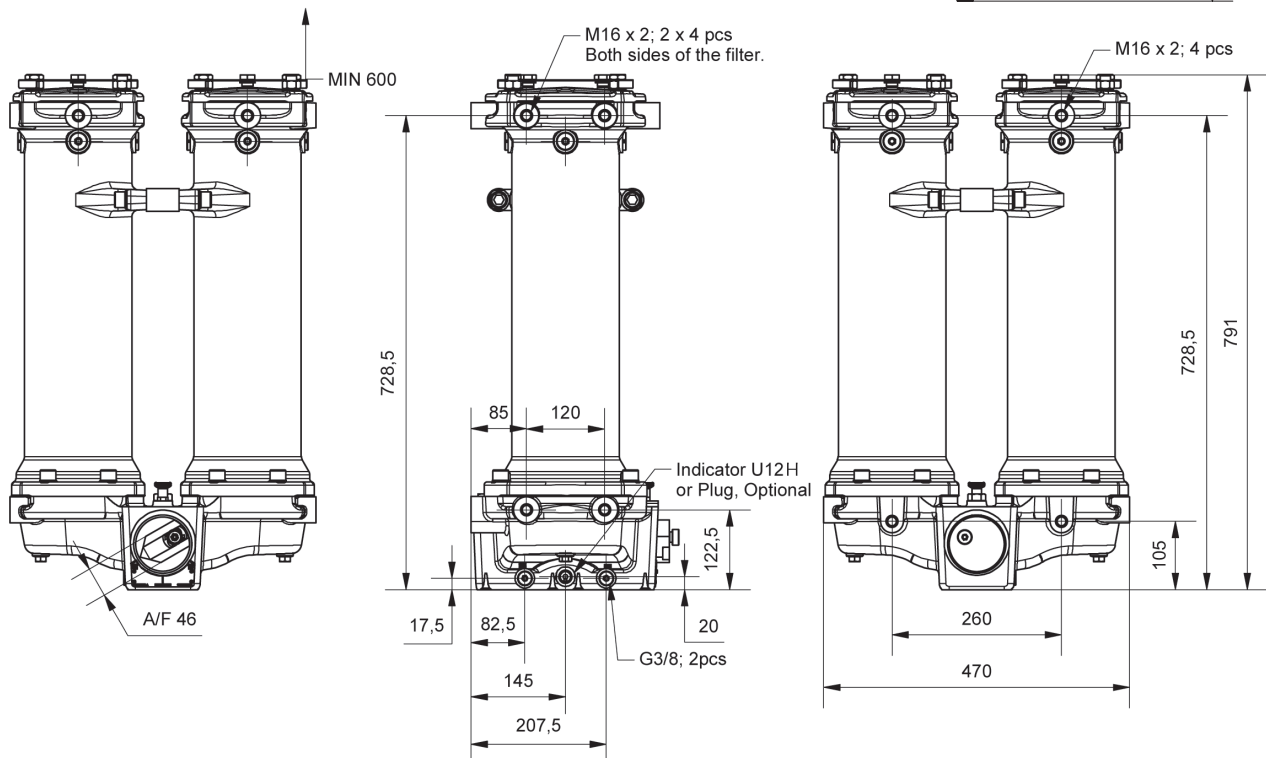
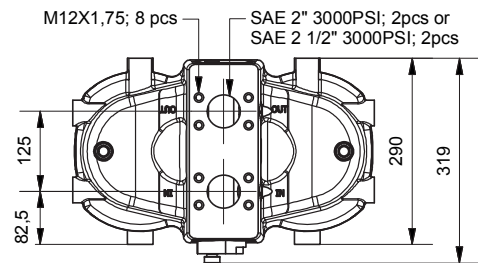
Suitable for use with regular hydraulic and lubrication oils and light fuel oils. For heavy fuel oils and other fluids consult Parker Filtration.

Parker's iprotect® family of filter elements represent the next generation of patented filter elements.

**iprotect®**

- Thanks to the patented construction of every iprotect element, the quality of filtration is guaranteed, as no 'pirate spare parts' can be used. This ensures that the iprotect element remains the truly protective 'DNA' of hydraulic & lubrication systems.
- In addition to the ultimate protection of the system, the iprotect family ensures that any environmental impact is minimised, by the retention and reuse of the filter element support core.
- Finally, 'iprotect' the environment by reducing environmental waste, typically, by 50%.

Dimensions and other details may be changed without notice. Please contact Parker for the latest information.



# DF65

## Pressure Drop Curves

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

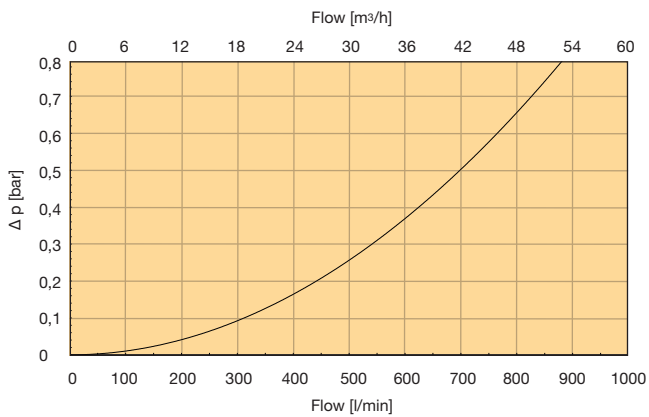
The recommended level of the initial pressure drop for the filter is maximum 0.8 bar.

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

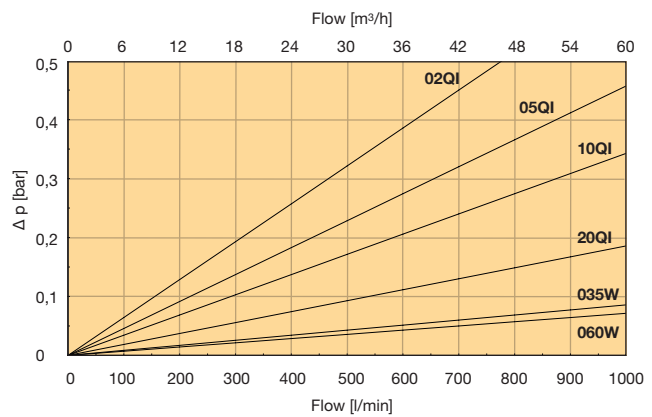
If the medium used has a viscosity different from 30 cSt, pressure drop over the filter can be estimated as follows:

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

**DF65 housing**



**DF65 elements**



### REPLACEMENT ELEMENTS WITH FLUOROELASTOMER SEALS

Media code	Order code
Glassfibre	
02QI	938944Q
05QI	938945Q
<b>10QI</b>	<b>938946Q</b>
<b>20QI</b>	<b>938947Q</b>
<b>Cleanable metal mesh</b>	
035W	938948
060W	938949

### SPARE PARTS

Service seal kit	CODE
Seal material	
Fluoroelastomer	930000053

Seals needed in element service are included in Parker original replacement element package.



# DF65

## Ordering information

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>DF65</b>

Table 2

FILTER SIZE	
Element length	CODE
Length 6	<b>6</b>

Table 3

DEGREE OF FILTRATION	
iprotect® Element type	CODE
Glassfibre 2 µm	02QI
Glassfibre 5 µm	05QI
Glassfibre 10 µm	<b>10QI</b>
Glassfibre 20 µm	<b>20QI</b>
Other media	
Cleanable metal mesh 35 µm	035W
Cleanable metal mesh 60 µm	060W

Table 4

SEAL TYPE	
Elements	CODE
Fluoroelastomer	<b>V</b>

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

Table 5

INDICATORS	
Options	CODE
No dp-indicator port	N
Indicator port plugged	<b>P</b>
Visual indicator	<b>M3</b>
Electrical indicator	<b>T1</b>
Electronic indicator (PNP/N.O.)	F1
Electronic indicator (NPN/N.O.)	F2
Electronic indicator (PNP/N.C.)	F3
Electronic indicator (NPN/N.C.)	F4

Table 6

BYPASS AND INDICATOR SETTINGS	
Bypass/indicator setting	CODE
3,5 bar / 2,5 bar	<b>K</b>
1,7 bar / 1,2 bar	G
No / No	X

Code denotes settings only. Select with or no bypass in table 8.

Table 7

FILTER CONNECTIONS	
Port size	CODE
SAE flange 2" 3000-M	<b>R32</b>
SAE flange 2½" 3000-M	R40

Table 8

OPTIONS	
Options	CODE
With bypass	<b>1</b>
No bypass	2

### WARNING – USER RESPONSIBILITY

#### FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCT DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalogue and in any other materials provided from Parker or its subsidiaries or authorized distributors.
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