

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 a broad filtration area providing low pressure loss, long service life and maximum protection even in cold conditions. The duplex arrangement allows continuous operation and element service to be made when most suitable for the maintenance staff.



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Applications:

- Gearbox lubrication systems
- Turbine lubrication systems
- Propulsion systems

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 (GSI)

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:

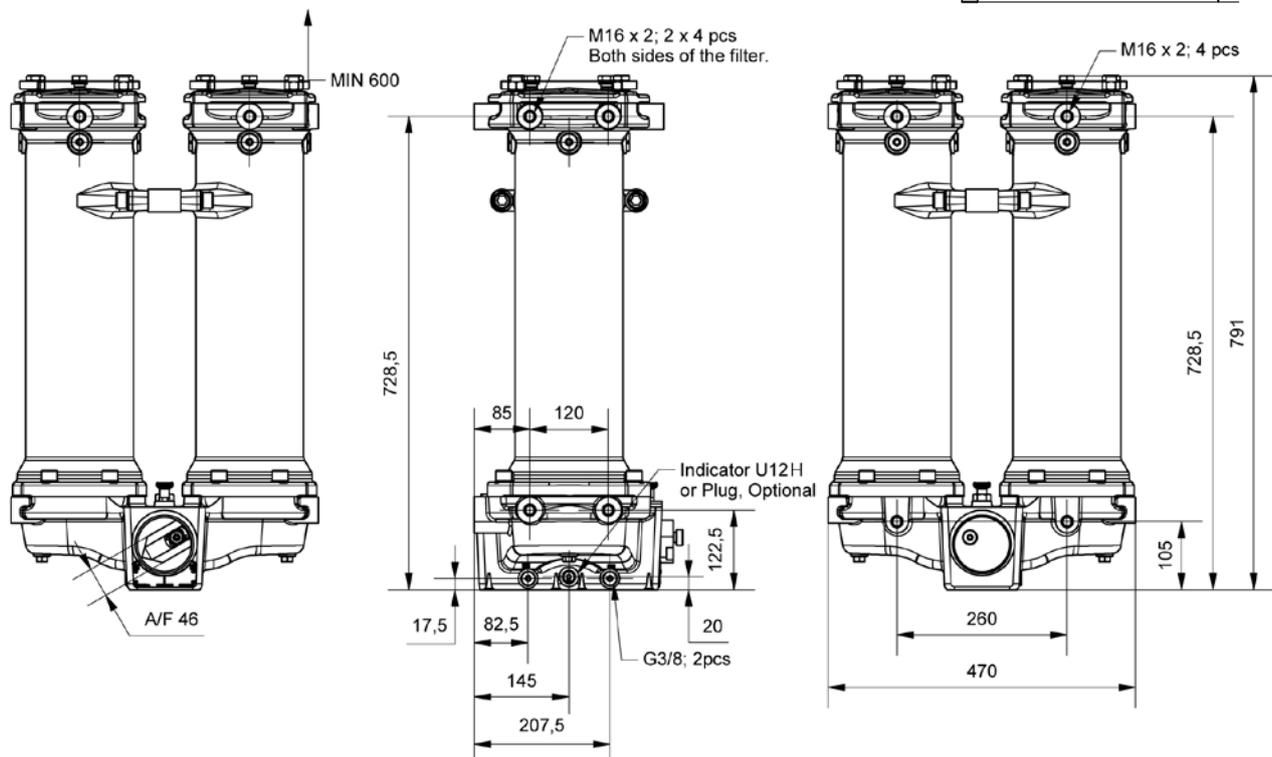
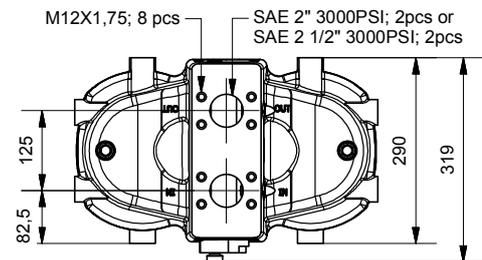
Suitable for use with regular hydraulic and lubrication oils and light fuel oils. For heavy fuel oils and other fluids consult Parker Filtration.

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

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

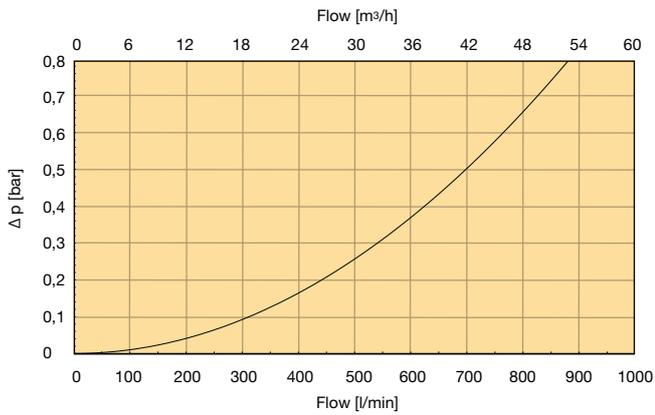
The recommended level of the initial pressure drop for this filter is maximum 0.8 bar.

Δp -curves are measured at 30 cSt.

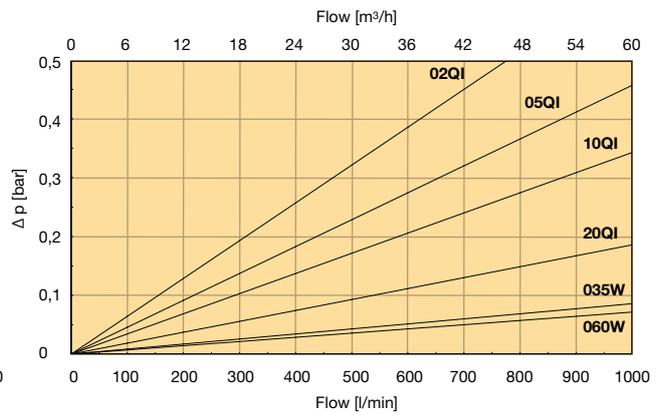
If the medium used has a viscosity different from 30 cSt, pressure drop over the filter can be estimated as follows:

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

DF65 housing



DF65 elements



REPLACEMENT ELEMENTS WITH FLUOROELASTOMER SEALS

Media code	Order code
Glassfibre	
02QI	938944Q
05QI	938945Q
10QI	938946Q
20QI	938947Q
Cleanable metal mesh	
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.



Product Description for DF65

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	DF65

Table 2

FILTER SIZE	
Element length	CODE
Length 6	6

Table 3

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

Table 4

SEAL TYPE	
Elements	CODE
Fluoroelastomer	V

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

Table 5

INDICATORS	
Options	CODE
No indicator block	N
Indicator port plugged	P
Visual indicator	M3
Electrical indicator	T1
Electronic indicator (PNP/N.O.)	F1
Electronic indicator (NPN/N.O.)	F2
Electronic indicator (NPN/N.O.)	F3
Electronic indicator (NPN/N.O.)	F4

Table 6

BYPASS AND INDICATOR SETTINGS	
Bypass/indicator setting	CODE
3.5 bar/2.5 bar	K
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	D32
SAE flange 2½" 3000-M	R40

Table 8

OPTIONS	
Options	CODE
With bypass	1
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.

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