



OffLine Filter Pressure OLFP 1 / 3 / 6

Description

The OffLine Filter Pressure OLFP is a stationary offline filter and is used to remove oil ageing products, water and solid particles from hydraulic and lubrication fluids.

Its compact construction also makes the OLFP ideally suited for use in the smallest of installation spaces. The housings are pressure resistant up to 20 bar. Since the housing material is aluminium, the filters are also suitable for low-temperature applications.

The flow can be taken directly from the main flow through an orifice and the orifice determines the flow rate. Optionally, the OffLine Filters can be equipped with a motor-pump unit and with a particle counter on inductive basis.

The Trimicron series of filter elements NxTMxxx have been specially developed for the combined removal of fine particles, water and oil ageing products. The most modern filter materials with reliable separation characteristics and high contamination retention capacity are used to manufacture these elements.

Applications

- Wind turbines
- Industrial gears

Special Features

- Removal of oil ageing products, solid particles and water
- Improvement in component lifetime
- Greater machine availability
- Minimum space requirement due to compact design
- Very easy maintenance
- Elements have a high contamination retention capacity

Technical Details

	OLFP 1	OLFP 3	OLFP 6
Operating pressure	max. 25 bar	max. 20 bar	max. 20 bar
Fluid temperature range*	-30 to 80 °C	-30 to 80 °C	-30 to 80 °C
Max. operating viscosity	1,000 mm ² /s		
Ambient temperature range*	-30 to 80 °C	-30 to 80 °C	-30 to 80 °C
Survival temperature*	-40 °C	-40 °C	-40 °C
Storage temperature range*	-40 to 30 °C	-40 to 30 °C	-40 to 30 °C
Material of filter head	Aluminium	Aluminium	Aluminium
Material of filter bowl	Aluminium	Aluminium	Aluminium
Seal material	FKM / NBR	FKM / NBR	FKM / NBR
Filter housing volume	≈ 9 litres	≈ 27 litres	≈ 43 litres
Hydraulic port (IN / OUT)	See table "Hydraulic connections"		
Filter element type	1x N1TMxxx	1x N3TMxxx	2x N3TMxxx
Weight when empty	≈ 21 kg	≈ 37 kg	≈ 41 kg

* Housing only, motor-pump unit on request

Order details

OLFP - 1 / 2 - G - M - M - TM - N - E

Basic model

OLFP = OffLine Filter Pressure
OLFPCM = OffLine Filter Pressure with CM

Size

1 = Size 1 (1x filter element*)
3 = Size 3 (1x filter element*)
6 = Size 6 (2x filter elements*)

Nominal flow rate/Orifice type

2 = 2 l/min (orifice A)
3 = 3 l/min (orifice B)
6 = 6 l/min (orifice C)
Z = variable (without orifice, without pump)

Pump type

O = with orifice (for flow rate, see Graph "Flow rate against orifice")
G = with gear pump (only for sizes 3+6)
Z = without

Voltage

M = 230 V / 50 Hz / 1Ph / 0.37 kW
N = 400 V / 50 Hz / 3Ph / 0.37 kW
AB = 690 V / 50 Hz / 3Ph / 0.37 kW
N60, M60 = operation at 60 Hz
Z = without motor (for pump type O and Z)
Other voltages on request

Measurement technology

M = MCS 14xx Metallic Contamination Sensor
A = AS 1000 Aqua Sensor
Z = without (for basic type OLFP)

Filter element type*

TM = Trimicon

Seal material

N = NBR
F = FKM (FPM, Viton®)

Clogging indicator

E = standard, pressure gauge
B = differential pressure indicator, visual (VM2BM.x)
C = differential pressure indicator, electrical (VM2C.x)
D3 = differential pressure indicator, visual/electrical (VM2D.x)
D38 = differential pressure gauge, electrical VL x GW.0 /-V-113
Z = without

* Filter element not supplied. These must be ordered separately.

Items supplied

(Preference models, designed for 6 bar inlet pressure)

OffLine Filter OLFP 1

- OffLine Filter OLFP-1/2-OZ-Z-TM-NZ
Part No. 3738168

OffLine Filter OLFP 3

- OffLine Filter OLFP-3/3-OZ-Z-TM-NZ
Part No. 3712592

OffLine Filter OLFP 6

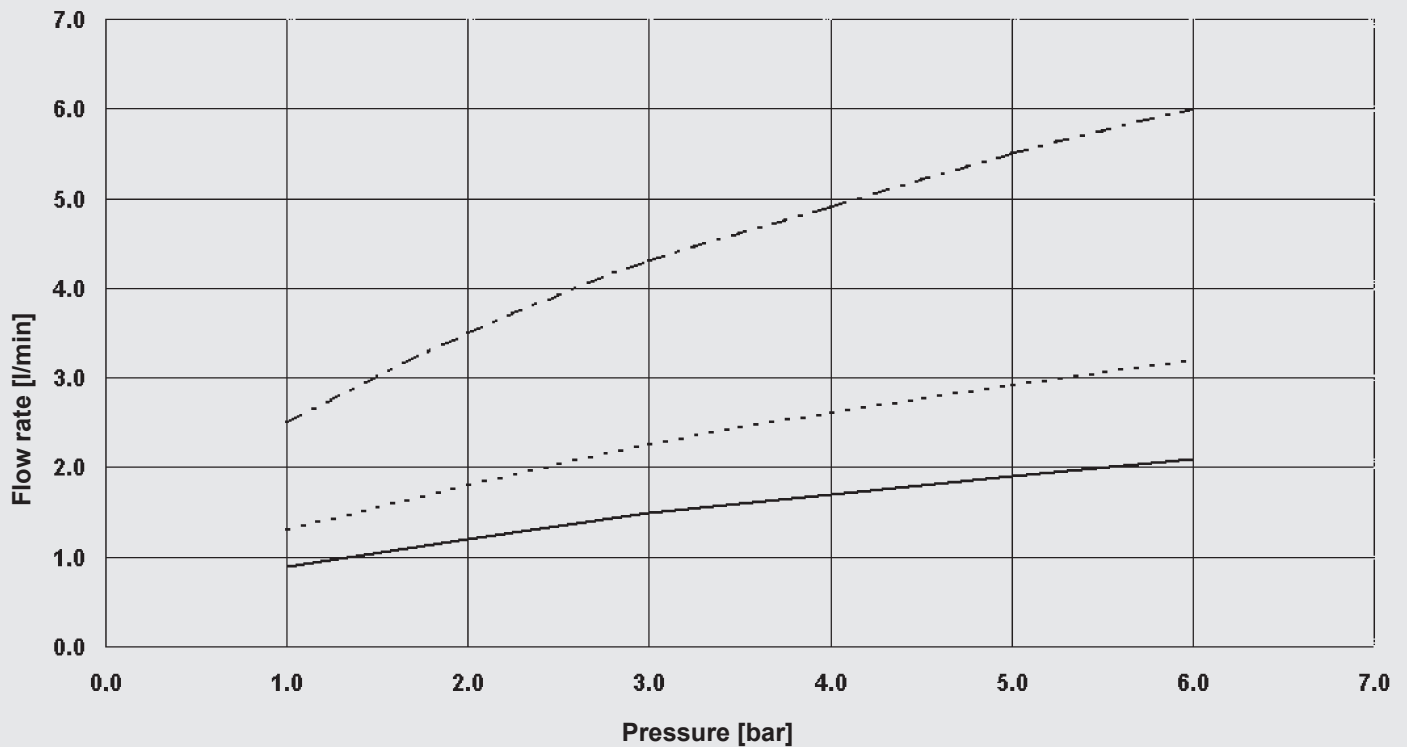
- OffLine Filter OLFP-6/6-OZ-Z-TM-NZ
Part No. 3712591

Replacement element

Housing	Trimicon filter element
Size 1	N1TM003 / -N (3 µm)
Size 3	N3TM003 / -N (3 µm)
Size 6	2x N3TM003 / -N (3 µm)

Replacement element

Type	Nominal flow rate	Orifice	=	Line
OLFP x/2	2 l/min	A	=	—————
OLFP x/3	3 l/min	B	=	- - - - -
OLFP x/6	6 l/min	C	=	- · - · - · -
OLFP x/z	variable	-	=	

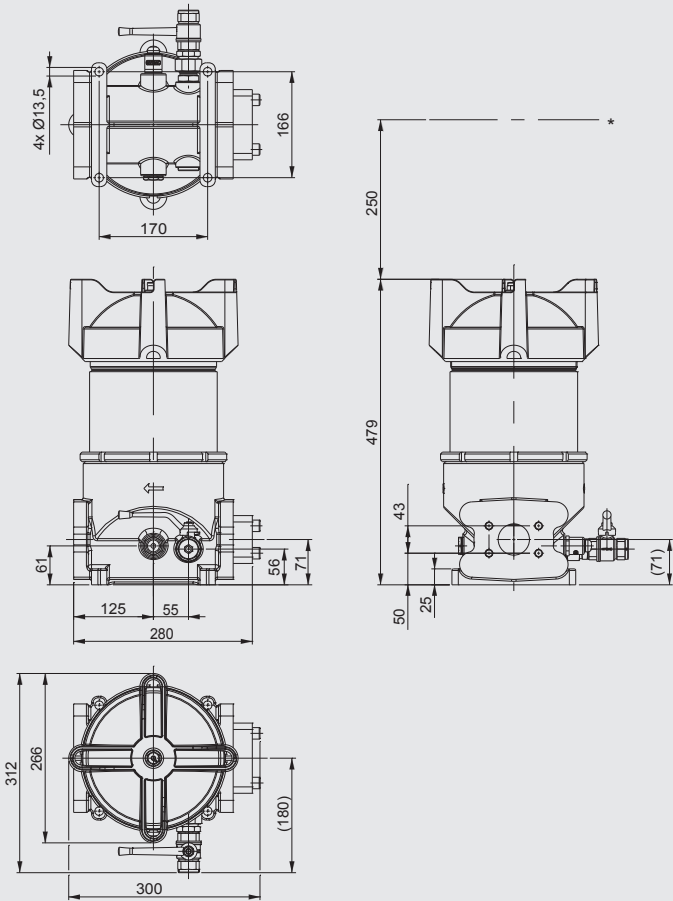


Values are valid for clean elements only.
Valid for viscosities from 0 ... 200 mm²/s.

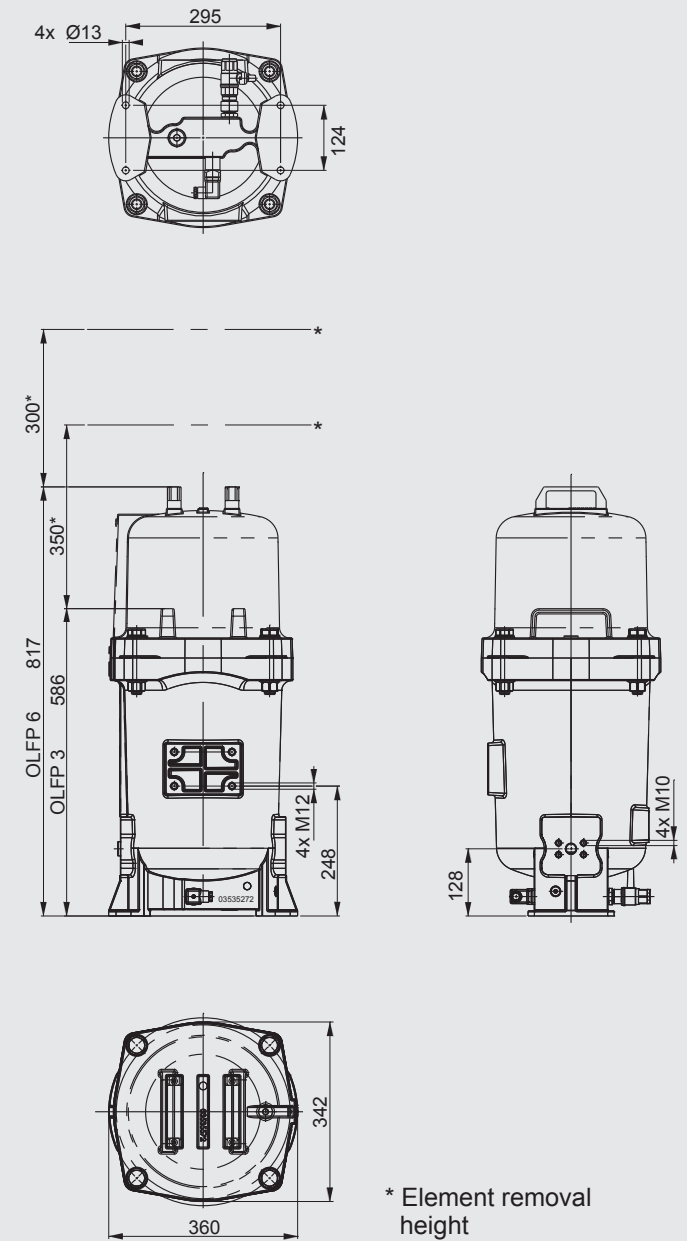
Hydraulic connection types

Type	Connection size						
	IN				OUT		
	SAE 2"	SAE 3/4"	G 3/4"	G 1/2"	SAE 2"	G 3/4"	G 1/2"
OLFP-1/Z-ZZ-Z-TM-NZ	✓	–	–	–	✓	–	–
OLFP-1/2-OZ-Z-TM-NZ	–	–	✓	–	✓	–	–
OLFP-3/Z-ZZ-Z-TM-NZ	–	✓	–	✓	–	–	✓
OLFP-3/3-OZ-Z-TM-NZ	–	–	✓	–	–	✓	–
OLFP-6/3-GN-Z-TM-NZ	–	✓	–	–	–	–	✓
OLFPCM-6/3-GN-MA-TM-NZ	–	✓	–	–	–	–	✓

Dimensions of OLFP 1



Dimensions of OLFP 3 / OLFP 6



Note

The information in this brochure relates to the operating conditions and applications described.
For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.

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