HYDAC INTERNATIONAL

# OffLine Filter

## OLF 5 Lubrication Line

### Description

The compact fluid service units of the OLF 5 Lubrication Line are designed to filter hydraulic and lubrication fluids offline.

Different versions are available with or without motor-pump units.

On the Toploader version, the element is removed "from the top".

The Dimicron elements used in this filter have the following special features:

- Particularly high contamination retention capacity
- Environmentally safe disposal (incinerable) and
- Water absorption (optional)

### Applications

- Machine tools
- Plastic injection moulding machines
- Mobile machines
- Wind power

### Advantages

- Improvement of component and system filter lifetime
- Greater machine availability
- Longer intervals between oil changes
- Minimum space requirement due to compact design
- Very easy maintenance
- High contamination retention capacity of elements
- Environmentally safe disposal of elements (incinerable)

### Technical specifications

| | |
|---|---|
| Size | 5/4 |
| Filter element | Dimicron ( 1µm*)<br>Dimicron ( 2µm*)<br>Dimicron ( 5µm*)<br>Dimicron (10µm*)<br>Dimicron (20µm*)<br>Aquamicron ( 2µm)<br>Aquamicron (20µm)<br>0160 MA 03 BN ( 3µm)<br>0160 MA 05 BN ( 5µm)<br>0160 MA 10 BN (10µm)<br>0160 MA 20 BN (20µm)<br>0180 MA 03 BN ( 3µm)<br>0180 MA 05 BN ( 5µm)<br>0180 MA 10 BN (10µm)<br>0180 MA 20 BN (20µm) |
| Pump type | Vane pump |
| Max. flow rate | 4 l/min |
| Contamination retention capacity | DIMICRON 200g ISOMTD® Δp=2.5 bar<br>AQUAMICRON 185g ISOMTD® Δp=2.5 bar<br>(water absorption approx. 0.5 l at Δp=2.5 bar)<br>0160 MA approx. 60g ISOMTD® Δp=2.5 bar<br>0180 MA approx. 100g ISOMTD® Δp=2.5 bar |
| Operating pressure | 3.5 bar max. |
| Permitt. negative pressure across the suction port of the unit | -0.4 bar ... 0.6 bar |
| Viscosity range | 15 ... 7000 mm²/s<br>(see Page 162: Application) |
| Permitted temperature range of fluid | 0 ... 80 °C |
| Ambient temperature | -20 ... 40 °C |
| Seals, gaskets | NBR (Option: FPM) |
| Protection class | IP 54 |
| Weight | OLF-5/4-S... ≈ 11 kg<br>OLF-5/4-SP... ≈ 11 kg |

## Model code

OLF 5/4 S 370-N N5DM002 BM

**Basic model**
OLF = OffLine Filter

**Size and nominal volume**
5/4 = 4 l/min (for lubrication systems)

**Version**
S = standard
SP = spin-on filter

**Motor output voltage**

| | 4 l/min |
|---|---|
| 370-N | 370 W, 3x380 - 420 V (50 Hz)<br>3 x 440 - 480 V (60 Hz) |
| 370-M | 370 W, 1x230 V 50 Hz |
| 370-K | 370 W, 1x120 V 60 Hz |

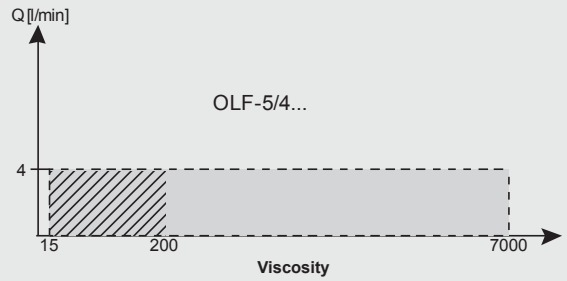
**Filter element**
N 5 DM 001 = DIMICRON filtration rating 1 µm absolute
N 5 DM 002 = DIMICRON filtration rating 2 µm absolute
N 5 DM 005 = DIMICRON filtration rating 5 µm absolute
N 5 DM 010 = DIMICRON filtration rating 10 µm absolute
N 5 DM 020 = DIMICRON filtration rating 20 µm absolute
N 5 AM 002 = AQUAMICRON filtration rating 2 µm absolute
N 5 AM 020 = AQUAMICRON filtration rating 20 µm absolute
M 160 B 03 = 0160 MA 03 BN, filtration rating 3 µm absolute
M 160 B 05 = 0160 MA 05 BN, filtration rating 5 µm absolute
M 160 B 10 = 0160 MA 10 BN, filtration rating 10 µm absolute
M 160 B 20 = 0160 MA 20 BN, filtration rating 20 µm absolute
M 180 B 03 = 0180 MA 03 BN, filtration rating 3 µm absolute
M 180 B 05 = 0180 MA 05 BN, filtration rating 5 µm absolute
M 180 B 10 = 0180 MA 10 BN, filtration rating 10 µm absolute
M 180 B 20 = 0180 MA 20 BN, filtration rating 20 µm absolute
Z = without filter element

**Clogging indicator**
BM = standard, differential pressure indicator - visual (VM2BM.1)
C = differential pressure indicator - electrical (VM2C.0)
D = differential pressure indicator - visual-electrical (VM2D.0)
Z = without clogging indicator

## Application

**Tank volumes up to approx. 300 l**

**Viscosity range in which the max. flow rate will only be achieved after approx. 10 minutes if the pump is not primed.**




## Replacement filter elements

| Element type | Part Number |
|---|---|
| N5DM001 | 3106549 |
| N5DM002 | 349494 |
| N5DM005 | 3068101 |
| N5DM010 | 3102924 |
| N5DM020 | 3023508 |
| N5AM002 | 349677 |
| N5AM020 | 3040345 |
| 0160 MA 03 BN | 314609 |
| 0160 MA 05 BN | 315621 |
| 0160 MA 10 BN | 314022 |
| 0160 MA 20 BN | 315485 |
| 0180 MA 03 BN | 310475 |
| 0180 MA 05 BN | 315622 |
| 0180 MA 10 BN | 315726 |
| 0180 MA 20 BN | 315623 |

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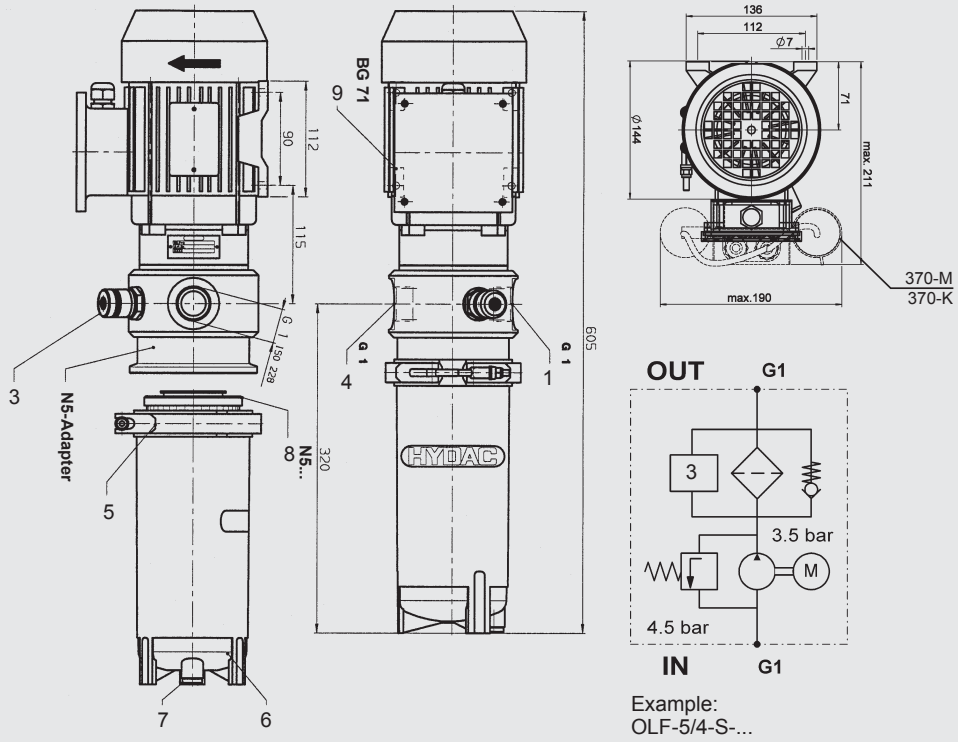
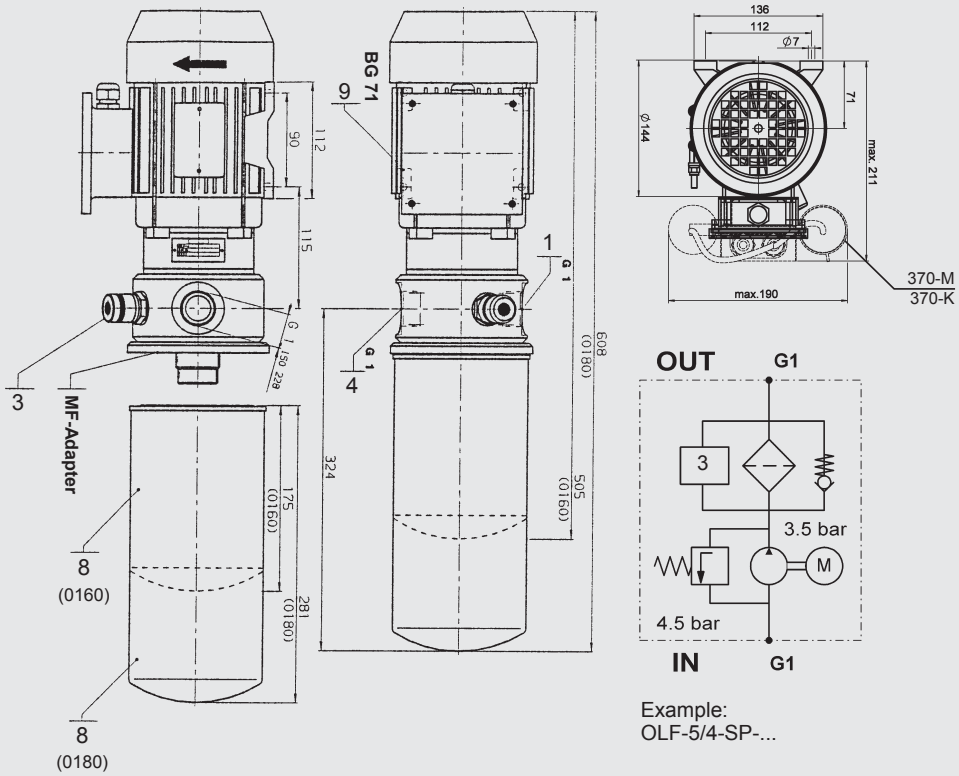
## Dimensions




Example:
OLF-5/4-S-...




Example:
OLF-5/4-SP-...

BG= Size
1 = Inlet
2 = Option: differential pressure indicator
3 = Clogging indicator (optional)
4 = Outlet
5 = Clamp
6 = Filter bowl
7 = Drain
8 = Filter element
9 = Electric motor

## Note

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.