Gear Pump Units
For single-line centralized lubrication systems

These units comprising the MFE Group are designed to supply the lubricant used in intermittently operated, single-line centralized lubrication systems.
<table>
<thead>
<tr>
<th>Order No. 1)</th>
<th>Medium</th>
<th>Flow rate</th>
<th>Reservoir capacity</th>
<th>Reservoir material</th>
<th>Design features / Special technical features</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFE2-KW3F-2</td>
<td>Oil</td>
<td>0.2</td>
<td>3</td>
<td>Plastic</td>
<td>24 V mit lubricant level switch with M12×1 plug connector</td>
<td>4</td>
</tr>
<tr>
<td>MFE2-KW3F-S9+MGP</td>
<td>Oil</td>
<td>0.2</td>
<td>3</td>
<td>Plastic</td>
<td>24 V level monitoring with M12×1 plug connector Motor with Harting connector</td>
<td>4</td>
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<tr>
<td>MFE2-KW3F-2</td>
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<td></td>
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<td>Plastic</td>
<td>Two 24 V lubricant level switches for minimum and advance warning</td>
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<tr>
<td>MFE2-KW6F-S6</td>
<td>Oil</td>
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<td>6</td>
<td>Plastic</td>
<td>Two 24 V lubricant level switches for minimum and advance warning</td>
<td>4</td>
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<tr>
<td>MFE2-KW6F-S7</td>
<td>Oil</td>
<td>0.2</td>
<td>6</td>
<td>Plastic</td>
<td>Two 24 V lubricant level switches for min. and max. level</td>
<td>4</td>
</tr>
<tr>
<td>MFE2-KW6F-S13</td>
<td>Oil</td>
<td>0.2</td>
<td>6</td>
<td>Plastic</td>
<td>Two 24 V lubricant level switches for minimum and advance warning Motor UL (appr.)</td>
<td>4</td>
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<tr>
<td>MFE2-KW6F-S16</td>
<td>Oil</td>
<td>0.2</td>
<td>6</td>
<td>Plastic</td>
<td>Two 24 V lubricant level switches for minimum and advance warning with M12×1 plug connector; Filler coupling</td>
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<tr>
<td>MFE2-KW6F-S21</td>
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<td>0.2</td>
<td>6</td>
<td>Plastic</td>
<td>Two 24 V lubricant level switches for minimum and advance warning with M12×1 plug connector Motor with Harting connector</td>
<td>4</td>
</tr>
<tr>
<td>MFE2-BW7F-S3</td>
<td>Oil</td>
<td>0.2</td>
<td>6</td>
<td>Plastic</td>
<td>Two 24 V lubricant level switches for minimum and advance warning</td>
<td>4</td>
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<tr>
<td>MFE5-KW3-2</td>
<td>Oil</td>
<td>0.5</td>
<td>3</td>
<td>Plastic</td>
<td>Basic version with WS32-2 float switch</td>
<td>10</td>
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<tr>
<td>MFE5-KW3-2-S4</td>
<td>Oil</td>
<td>0.5</td>
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<td>Basic version with WS35-2 float switch</td>
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<td>MFE5-KW3-2-S9</td>
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<td>3</td>
<td>Plastic</td>
<td>For oil as 5 mm²/s at max. 16 bars</td>
<td>10</td>
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<tr>
<td>MFE5-KW3-2-S13</td>
<td>Oil</td>
<td>0.5</td>
<td>3</td>
<td>Plastic</td>
<td>Unit for 50/95 weatherproofing (DIN 50015); WS32-2 float switch</td>
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<tr>
<td>MFE5-KW3-S24</td>
<td>Oil</td>
<td>0.5</td>
<td>3</td>
<td>Plastic</td>
<td>Motor with HAN6ES Harting connector; WS35-S30 float switch</td>
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<tr>
<td>MFE5-BW3-2</td>
<td>Oil</td>
<td>0.5</td>
<td>3</td>
<td>Plastic</td>
<td>Basic version with WS32-2 float switch</td>
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<tr>
<td>MFE5-BW3-2-S14</td>
<td>Oil</td>
<td>0.5</td>
<td>3</td>
<td>Plastic</td>
<td>WS35-2 float switch; Stäubli filler coupling</td>
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<td>MFE5-BW3-2-S22</td>
<td>Oil</td>
<td>0.5</td>
<td>3</td>
<td>Plastic</td>
<td>For oil as 5 mm²/s at max. 16 bars</td>
<td>9</td>
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<tr>
<td>MFE5-BW3-2-S34</td>
<td>Oil</td>
<td>0.5</td>
<td>3</td>
<td>Plastic</td>
<td>Motor UL/CSA</td>
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<td>MFE5-BW3-2-S37</td>
<td>Oil</td>
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<td>Plastic</td>
<td>Basic version with WS35-2 float switch</td>
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<td>MFE5-BW3-S41</td>
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<td>MFE5-KW6</td>
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<td>6</td>
<td>Plastic</td>
<td>Basic version with WS35-2 float switch</td>
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<td>MFE5-KW6-S8</td>
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<td>6</td>
<td>Plastic</td>
<td>FKM (FPM) version, WS35-32 float switch</td>
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<tr>
<td>MFE5-KW6-S33</td>
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<td>Plastic</td>
<td>Motor with HAN6ES Harting connector; WS35-S30 float switch</td>
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<tr>
<td>MFE5-BW7</td>
<td>Oil</td>
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<td>6</td>
<td>Plastic</td>
<td>Basic version with WS32-2 float switch</td>
<td>9</td>
</tr>
<tr>
<td>MFE5-BW7-CF</td>
<td>Oil</td>
<td>0.5</td>
<td>6</td>
<td>Plastic</td>
<td>Basic version with WS35-2 float switch</td>
<td>9</td>
</tr>
<tr>
<td>MFE5-BW7-S8</td>
<td>Oil</td>
<td>0.5</td>
<td>6</td>
<td>Plastic</td>
<td>FKM (FPM) version, WS35-32 float switch</td>
<td>9</td>
</tr>
<tr>
<td>MFE5-BW7-S22</td>
<td>Oil</td>
<td>0.5</td>
<td>6</td>
<td>Plastic</td>
<td>Motor UL/CSA</td>
<td>9</td>
</tr>
<tr>
<td>MFE5-BW7-S29</td>
<td>Oil</td>
<td>0.5</td>
<td>6</td>
<td>Plastic</td>
<td>WS35-2 float switch; Stäubli filler coupling</td>
<td>9</td>
</tr>
<tr>
<td>MFE5-BW7-S34</td>
<td>Oil</td>
<td>0.5</td>
<td>6</td>
<td>Plastic</td>
<td>Unit for 50/95 weatherproofing (DIN 50015); WS32-2 float switch</td>
<td>9</td>
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<tr>
<td>MFE5-BW7-S107</td>
<td>Oil</td>
<td>0.5</td>
<td>6</td>
<td>Plastic</td>
<td>Motor with HAN6ES Harting connector; WS35-S30 float switch</td>
<td>9</td>
</tr>
<tr>
<td>MFE5-BW16</td>
<td>Oil</td>
<td>0.5</td>
<td>15</td>
<td>Plastic</td>
<td>Basic version with WS32-2 float switch; foot-mounted reservoir</td>
<td>11</td>
</tr>
<tr>
<td>MFE5-BW15-S7</td>
<td>Oil</td>
<td>0.5</td>
<td>15</td>
<td>Plastic</td>
<td>Grundausführung mit Schwimmerschalter WS35-2; reservoir</td>
<td>11</td>
</tr>
<tr>
<td>MFE5-BW16-S93</td>
<td>Oil</td>
<td>0.5</td>
<td>15</td>
<td>Plastic</td>
<td>Motor mit Hartingstecker HAN6ES; Schwimmerschalter WS35-S30</td>
<td>11</td>
</tr>
</tbody>
</table>

1) When ordering, the order no. should be supplemented with the power key.
Pump overview

**CAUTION**
The important information on product usage located on the back cover applies to all systems described in this brochure.

**Gear pump units MFE2**
- Reservoir material: Plastic, Metal
- Lubricant: Fluid grease
- Fill level monitoring: optional
- Reservoir capacity: 3 or 6 litres
- Flow rate: 0.2 l/min

**Gear pump units MFE5**
- Reservoir material: Plastic, Metal
- Lubricant: Oil
- Fill level monitoring: optional
- Reservoir capacity: 3, 6 or 15 litres
- Flow rate: 0.5 l/min

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1-1202-EN

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Page 3
MFE2 gear pump unit for fluid grease with main line automatic pressure relief

These units are designed for centralized lubrication systems used in conjunction with piston distributors (total-loss lubrication) and are equipped with the required relief and safety valves.

The drive is provided by a three-phase motor.

The pumps are located below the grease level, in contrast to oil units. Intermittent operation is required for the distributors’ sequence of operation: when the pump is running, the distributors are pressurized, when the pump is at rest, the main line is relieved of pressure and the distributors reverse. This work cycle is achieved by timing the electric motor.

For suitable control units, see brochures 1-1700-1-EN – 1-1700-4-EN

<table>
<thead>
<tr>
<th>Order No. 1)</th>
<th>Reservoir capacity [litres]</th>
<th>Reservoir capacity Plastic</th>
<th>Reservoir capacity Metal</th>
<th>Special technical feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFE2-KW3F-2</td>
<td>3</td>
<td>•</td>
<td></td>
<td>24 V mit lubricant level switch with M12×1 plug connector</td>
</tr>
<tr>
<td>MFE2-KW3F-S9+M6P</td>
<td>3</td>
<td>•</td>
<td></td>
<td>24 V level monitoring with M12×1 plug connector Motor with Harting connector</td>
</tr>
<tr>
<td>MFE2-KW3F-3</td>
<td>3</td>
<td>•</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MFE2-KW6F-S1</td>
<td>6</td>
<td>•</td>
<td></td>
<td>Two 24 V lubricant level switches for minimum and advance warning</td>
</tr>
<tr>
<td>MFE2-KW6F-S5</td>
<td>6</td>
<td>•</td>
<td></td>
<td>Two 24 V lubricant level switches for minimum and advance warning</td>
</tr>
<tr>
<td>MFE2-KW6F-S6</td>
<td>6</td>
<td>•</td>
<td></td>
<td>Two 24 V lubricant level switches for minimum and advance warning</td>
</tr>
<tr>
<td>MFE2-KW6F-S7</td>
<td>6</td>
<td>•</td>
<td></td>
<td>Two 24 V lubricant level switches for min. and max. level</td>
</tr>
<tr>
<td>MFE2-KW6F-S13</td>
<td>6</td>
<td>•</td>
<td></td>
<td>Two 24 V lubricant level switches for minimum and advance warning Motor UL (appr.)</td>
</tr>
<tr>
<td>MFE2-KW6F-S16</td>
<td>6</td>
<td>•</td>
<td></td>
<td>Two 24 V lubricant level switches for minimum and advance warning with M12×1 plug connector</td>
</tr>
<tr>
<td>MFE2-KW6F-S21</td>
<td>6</td>
<td>•</td>
<td></td>
<td>Two 24 V lubricant level switches for minimum and advance warning with M12×1 plug connector Motor with Harting connector</td>
</tr>
<tr>
<td>MFE2-BW7F-S3</td>
<td>6</td>
<td>•</td>
<td></td>
<td>Two 24 V lubricant level switches for minimum and advance warning</td>
</tr>
</tbody>
</table>

1) When ordering, the order no. should be supplemented with the power key.
MFE2 gear pump unit for fluid grease with main line automatic pressure relief

Technical data

Unit
Flow rate .......................... 0,2 l/min
Continuous operation at p max. ....... 20 bar
Brief operation at p max. .............. 38 bar
Operation temperature ............... –10 to +40 °C
Mounting position .................. as shown
Lubricant .......................... fluid grease, NLGI grades 000, 00 compatible with plastics, NBR elastomers, copper and copper alloys

Motor
Rated power .................... 70 W
Speed 1) ........................... 2 700 min⁻¹
Type of enclosure to DIN 40050 ..... IP54
Insulation class ................... F
Voltage ........................... cf. table 1
Frequency ........................... 50/60 Hz

Level switch
MFE2-KW3F-2 .................... 24 V DC/250 mA
MFE2-KW6F-S1 .................... 10 to 55 V DC

Connectable load:
brief operation (max. 1s) ............. max. 1 A
continuous operation ............... max. 350 mA
(andere Aggregate auf Anfrage)

1) With frequency 50 Hz

Voltage (please indicate range when ordering)

Range I  Δ/Y 100–130 V / 173–225 V, 50 Hz  Δ/Y 0.90/0.53 A
Δ/Y 120–156 V / 208–270 V, 60 Hz

Range II  Δ/Y 207–254 V / 360–440 V, 50 Hz  Δ/Y 0.50/0.29 A
Δ/Y 249–305 V / 432–528 V, 60 Hz

Range III  Δ/Y 230–290 V / 398–500 V, 50 Hz  Δ/Y 0.40/0.23 A
Δ/Y 290–346 V / 500–600 V, 60 Hz

Any voltages deviating from these ranges can only be used for the respectively ordered voltage and frequency.
MFE5 gear pump unit for oil

Gear pump unit mounted separate from oil reservoir

Order No. ME5

Please provide voltage and frequency when ordering.

A special sealed pump must be used for horizontal flange-mounting of the unit in a position below the oil level.

For gear pump unit model MFE5 complete with metal or plastic reservoir (3, 6 and 15 liters) see the pages 9 – 11.
**MFE5 gear pump unit for oil**

**Explanation of hydraulic function**
Both (ME5, MFE5) types have the same hydraulic function.
Oil is sucked in at S and flows under pressure through the duct in the direction P. The oil pressure closes valve V and opens valve E3, at the same time closing valve E1 against spring tension. If air is entrained (due to low oil level in the reservoir), valve V remains open and diverts the air or, respectively, the air-oil mixture into the return duct (see bubble (o) marking in direction R1). Valve C allows oil under overpressure to flow out into the return duct (see cross (+) marking).

When the unit stops (interval time), spring-loaded valve E1 opens and valve E3 simultaneously closes. The system pressure at P can now be released through valve E1 – with the exception of a small amount of residual pressure determined by valve E2. This pressure release is required for the piston distributors to function correctly. The pressure relief process is shown in fig. 4.

**Explanation of the structural differences**
In the case of model ME5, the long screw plug D1 blocks flanged port R2 of the return duct. The oil returning from valves V, C and E1 flows via port R1 through a tube to the separately mounted oil reservoir (see fig. 1 and 2).

In the case of model MFE5, the short screw plug D2 – unlike D1 with model ME5 – leaves flanged port R2 open. A plug closes off external port R1. Flanged port R2 of the return duct drains directly into the reservoir without any connection threads (see fig. 3 and 4).

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**MFE5 unit variants** *

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>MFE5-2000</td>
<td>0.5</td>
<td>28</td>
<td>Basic version, NBR, plastic terminal box</td>
</tr>
<tr>
<td>MFE5-3041</td>
<td>0.5</td>
<td>28</td>
<td>Basic version, NBR, metal terminal box</td>
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<tr>
<td>MFE5-2000-D</td>
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<td>28</td>
<td>Installed below oil level, NBR, plastic terminal box</td>
</tr>
<tr>
<td>MFE5-3000-D</td>
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<td>Installed below oil level, NBR, metal terminal box</td>
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<td>MFE5-2008</td>
<td>0.5</td>
<td>28</td>
<td>Basic version, FKM (FPM), plastic terminal box</td>
</tr>
<tr>
<td>MFE5-2009</td>
<td>0.25</td>
<td>17.5</td>
<td>For light oil as 5 mm²/s, NBR</td>
</tr>
<tr>
<td>MFE5-2053</td>
<td>0.25</td>
<td>17.5</td>
<td>For light oil as 5 mm²/s, FKM</td>
</tr>
<tr>
<td>MFE5-4000</td>
<td>0.5</td>
<td>28</td>
<td>UL/CSA-approved, NBR</td>
</tr>
<tr>
<td>MFE5-5000</td>
<td>0.5</td>
<td>28</td>
<td>CCC-approved, NBR</td>
</tr>
<tr>
<td>MFE5-1001</td>
<td>0.5</td>
<td>28</td>
<td>HANES Harting connector, NBR, motor 180° turned</td>
</tr>
<tr>
<td>MFE5-1088</td>
<td>0.5</td>
<td>28</td>
<td>HANES Harting connector, FKM</td>
</tr>
<tr>
<td>MFE5-567</td>
<td>0.5</td>
<td>28</td>
<td>50/95 weatherproof, NBR, metal terminal box</td>
</tr>
</tbody>
</table>

*) The geometrical dimensions of the variants can deviate of the one shown in Fig3.
1) When ordering, the order no. should be supplemented with the power key.
2) Flow rate based on an operating viscosity of 140 mm²/s, at a back pressure of p = 5 bars.
3) The max. back pressure is equivalent to the actual value of the built-in pressure limiting valve.
If the variants are operated with a single-phase AC supply, only 60% of the indicated pressure is permissible, i.e. a 16-bar pressure limiting valve should be fitted to the system. The appropriate capacitors for a frequency of 50 and 60 Hz are:

- 230 V ... 8 μF: order No. 179-346-007
- 400 V/480 V ... 15 μF: order No. 179-346-060

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**Technical data of the shown motor**

- Motor: Three-phase motor
- Mode of operation: S1, 100%
- Insulation class: F
- Rated frequency: 50/60 Hz
- Voltage Y: 400/480 V
- Rated current: 0.29 A
- Rated power: 0.075/0.09 kW
- Rated speed: 2700/3200 min⁻¹
- Rated flow rate: 0.5/0.6 l/min
- Operating pressure: 28 bar
- Operating temperature: +10 to 40 °C
- Medium: 20 to 1000 mm²/s
- Type of enclosure acc. to DIN 50050: IP 54
- Max. suction head: 500 mm

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*See page 8: „Multivoltage motors“
Multi-voltage motors for pump units (assembly M..)

Many export oriented companies have to deal with voltages/frequencies that deviate from those in Germany. To make it easier for them to buy the most common pump units for centralized lubrication systems, we have developed 3 multirange motors that cover a wide range of three-phase voltages and frequencies.

Pump units with or without oil reservoirs are included, provided the hydraulic power data listed in the brochures are not exceeded (limit values).

These pump units are designated as:
M2, MF2, MFE2, M5, MF5, MFE5, FL12-3, FLMF12-3, M202

Limit values for
0.2 l-units (M..2-Group): 27 bars – 2000 mm²/s eff.
0.5 l-units (M..5-Group): 27 bars – 1000 mm²/s eff.
1.2 l-units FL12-3: 6 bars – 850 mm²/s eff.
2×0.2 l-units M202: 12 bars – 850 mm²/s eff.

Our experience shows these units can meet almost every need. That means simplified warehousing for our customers and shorter delivery times, since we always have these 3 types of motors in stock.

### Range I
- 100-130 V / 173-225 V, 50 Hz
- 120-156 V / 208-270 V, 60 Hz

Order code: 199
Order code ISO-F: 19E

### Range II
- 207-254 V / 360-440 V, 50 Hz
- 249-305 V / 432-528 V, 60 Hz

Order code: 299
Order code ISO-F: 29E

### Range III
- 230-290 V / 398-500 V, 50 Hz
- 290-346 V / 500-600 V, 60 Hz

Order code: 399
Order code ISO-F: 39E

A tailor-made motor has to be used instead of a multirange motor in the following cases:
- when the desired operating voltage cannot be covered by one of the three voltage ranges,
- when the operating voltage, with the voltage tolerances to be expected, exceeds a defined voltage benchmark for the range,
- in the case of motors with PTC thermistor sensors,
- for dual-circuit pump unit, e.g. M205
- in the case of motors with UL/CSA version
- for units with a 4-pole motor

### Table 1

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>230/400 V, 50 Hz</td>
<td>140</td>
</tr>
<tr>
<td>230/400 V, 60 Hz</td>
<td>640</td>
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<tr>
<td>240/415 V, 50 Hz</td>
<td>150</td>
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<td>240/415 V, 60 Hz</td>
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<td>255/440 V, 50 Hz</td>
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<tr>
<td>265/460 V, 60 Hz</td>
<td>675</td>
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<tr>
<td>265/460 V, 60 Hz, UL</td>
<td>563</td>
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<tr>
<td>265/460 V, 60 Hz, CSA</td>
<td>676</td>
</tr>
<tr>
<td>280/480 V, 60 Hz</td>
<td>680</td>
</tr>
<tr>
<td>280/480 V, 60 Hz, UL</td>
<td>562</td>
</tr>
<tr>
<td>280/480 V, 60 Hz, CSA</td>
<td>681</td>
</tr>
<tr>
<td>280/480 V, 60 Hz, UL/CSA</td>
<td>564</td>
</tr>
</tbody>
</table>
MFE5 gear pump unit with 3 or 6 liter metal reservoir

### Overview order No.

<table>
<thead>
<tr>
<th>Order No. 4)</th>
<th>Flow rate [l/min]</th>
<th>Reservoir capacity [litres]</th>
<th>Reservoir material</th>
<th>Order No. without float switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFE5-BW3-2</td>
<td>0.5</td>
<td>3</td>
<td>die-cast aluminum</td>
<td>MFE5-B3-2</td>
</tr>
<tr>
<td>MFE5-BW7</td>
<td>0.5</td>
<td>6</td>
<td>sheet steel</td>
<td>MFE5-B7</td>
</tr>
</tbody>
</table>

4) When ordering, the order no. should be supplemented with the power key.

### Technical data

Float switch (WS) for monitoring of minimum oil level

- Type of contact ........................................ 1 changeover
- Max. switching voltage .................. 230 V AC / 230 V DC
- Max. switching current ................. 1.0 A
- Max. switching capacity ......... 60 VA / 40 W
- Type of enclosure ....................... IP 65
- Temperature range ................. –10 to +60 °C

5) Take appropriate measures to protect contacts when switching inductive loads.

See page 5 for further information.

### Function – float switch (WS)

When the oil drops to a minimum level, contact 1–2 opens and contact 1–3 closes.

With plug-type connector that complies with DIN EN 175301-803-A

Depicted: full reservoir
MFE5 gear pump unit with 3 or 6 liter plastic reservoir

**Overview order No.**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Flow rate [l/min]</th>
<th>Reservoir capacity [litres]</th>
<th>Reservoir material</th>
<th>Order No. without float switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFE5-KW3-2</td>
<td>0.5</td>
<td>3</td>
<td>plastic</td>
<td>MFE5-K3-2</td>
</tr>
<tr>
<td>MFE5-KW6</td>
<td>0.5</td>
<td>6</td>
<td>plastic</td>
<td>MFE5-K7</td>
</tr>
</tbody>
</table>

4) When ordering, the order no. should be supplemented with the power key.

**Technical data**

Float switch (WS) for monitoring the minimum level

- Type of contact: 1 changeover
- Max. switching voltage: 230V AC / 230V DC
- Max. switching current: 1.0 A
- Max. switching capacity: 60 VA / 40 W
- Type of enclosure: IP 65
- Temperature range: –10 to +60 °C

5) Take appropriate measures to protect contacts when switching inductive loads.

See page 5 for further information.

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**Fig. 8**

Hydraulic layout MFE5-KW3-2

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**Fig. 9**

MFE5-KW3-2

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**Fig. 10**

MFE5-KW6

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1) Port tapped for solderless tube connection, for 8 mm diam. tube
2) Connection for cable 7 to 9 mm diam.
3) Connection for cable 4 to 11 mm diam.
MFE5 gear pump unit with 15 liter sheet steel reservoir

Overview order No.

<table>
<thead>
<tr>
<th>Order No. 3)</th>
<th>Flow rate [l/min]</th>
<th>Reservoir capacity [litres]</th>
<th>Reservoir material</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFE5-BW16</td>
<td>0.5</td>
<td>15</td>
<td>sheet steel</td>
<td></td>
</tr>
<tr>
<td>MFE5-BW15</td>
<td></td>
<td></td>
<td>foot-mounted</td>
<td></td>
</tr>
</tbody>
</table>

3) When ordering, the order no. should be supplemented with the power key.

Technical data

Float switch (WS) to monitor the critical level of oil with advance warning about 25 mm before the minimum oil level is reached.

- Type of contact: 2 changeover (reed contacts)
- Max. switching voltage: 230 V AC / 230 V DC
- Max. switching current: 0.8 A
- Max. switching capacity: 60 VA / 40 W
- Type of enclosure: IP 65
- Temperature range: –10 to +60 °C

4) Take appropriate measures to protect contacts when switching inductive loads.

See page 5 for further information.

Hydraulic layout MFE5-BW16

Function – float switch (WS)

About 25 mm before the minimum oil level is reached contact 1–3 closes.
When the minimum oil level is reached contact 1–2 opens in addition.
With plug-type connector to DIN EN 175301-803-A
Depicted: full reservoir
Important information on product usage

All products from SKF may be used only for their intended purpose as described in this brochure and the operating instructions. If operating instructions are supplied together with the products, they must be read and followed.

Not all lubricants can be fed using centralized lubrication systems. SKF can, on request, inspect the feedability of the lubricant selected by the user in centralized lubrication systems. Lubrication systems and their components manufactured by SKF are not approved for use in conjunction with gases, liquefied gases, pressurized gases in solution, vapors or such fluids whose vapor pressure exceeds normal atmospheric pressure (1 013 mbar) by more than 0,5 bar at their maximum permissible temperature.

In particular, we call your attention to the fact that hazardous materials of any kind, especially the materials classified as hazardous by EC Directive 67/548/EEC, Article 2, Para. 2, may only be filled into SKF centralized lubrication systems and components and delivered and/or distributed with the same after consultation with and written approval from SKF.

Further brochures

1-0103-EN   Fittings and Accessories
1-0103-1-EN  Connector Systems
1-1700-1-EN  Control and Monitoring Units for Centralized Lubrication Systems
1-1700-4-EN  Control and Monitoring Units for Centralized Lubrication Systems
1-9201-EN  Transport of Lubricants in Centralized Lubrication Systems

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