**Gear pump units** with automatic relief of pressure in main line

These units are designed for centralized lubrication systems used in conjunction with piston distributors (total-loss lubrication) and are equipped with the relief and safety valves required for the same. 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 operations, i.e. 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 leaflets 1-1700-1-US – 1-1700-4-US

<table>
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<tr>
<th>Bestell-Nr.</th>
<th>Delivery-rate [l/min]</th>
<th>Reservoir capacity [l]</th>
<th>Reservoir material *)</th>
<th>Lubricant level monitoring</th>
<th>Special technical feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFE2-KW3F-2</td>
<td>0.2</td>
<td>3</td>
<td>K</td>
<td>■</td>
<td>24 V lubricant level switch with M12x1 plug connector</td>
</tr>
</tbody>
</table>
| MFE2-KW3F-S9 | 0.2                   | 3                      | K                     | ■                       | 24 V level monitoring with M12x1 plug connector  
                    – Motor with Harting connector to DaimlerChrysler specs |
| MFE2-KW3F-S11 | 0.2                   | 3                      | K                     | ■                       | 24 V level monitoring with M12x1 plug connector  
                    – IP55 type of motor enclosure |
| MFE2-KW3F-S13 | 0.2                   | 3                      | K                     | ■                       | 24 V level monitoring  
                    – Motor UL (appr.) |
| MFE2-KW6F-S1 | 0.2                   | 6                      | K                     | ■                       | 2 24 V lubricant level switches for minimum and advance warning |
| MFE2-KW6F-S5 | 0.2                   | 6                      | K                     | ■                       | 2 24 V lubricant level switches for minimum and advance warning  
                    – Filler coupling to VW AG specs |
| MFE2-KW6F-S6 | 0.2                   | 6                      | K                     | ■                       | 2 24 V lubricant level switches for minimum and advance warning  
                    – Filler coupling to CNOMO (France) specs |
| MFE2-KW6F-S7 | 0.2                   | 6                      | K                     | ■                       | 2 24 V lubricant level switches for min. and max. level |
| MFE2-KW6F-S13 | 0.2                   | 6                      | K                     | ■                       | 2 24 V lubricant level switches for minimum and advance warning  
                    – Motor UL (appr.) |
| MFE2-KW6F-S16 | 0.2                   | 6                      | K                     | ■                       | 2 24 V lubricant level switches for minimum and advance warning with M12x1 plug connector  
                    – Filler coupling |
| MFE2-KW6F-S21 | 0.2                   | 6                      | K                     | ■                       | 2 24 V lubricant level switches for minimum and advance warning with M12x1 plug connector  
                    – Motor with Harting connector to DaimlerChrysler specs |
| MFE2-BW7F-S3 | 0.2                   | 6                      | M                     | ■                       | 2 24 V lubricant level switches for minimum and advance warning  
                    – Filler coupling to VW AG specs |

*) reservoir material: K = plastic  
M = metal
Technische Daten

Order No. .................... MFE2-KW3F-2 .......... MFE2-KW6F-S1
Reservoir capacity ........ 3 liters ............... 6 liters

Unit
Flow rate 1) ................................................... 0.2 l/min
Continuous operation at pm max ................................ 20 bars
Brief operation at pm max ........................................ 38 bars
Operating 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) ............................................................... 2700 rpm
Type of enclosure to DIN 40050 ................................ IP54
Insulation class ..................................................... F
Voltage .......................................................... cf. table
Frequency ....................................................... 50/60 Hz

Level switch
Mains connection 50/60 Hz: MFE2-KW3F-2 ............... 24 V DC
MFE2-KW6F-S1 ........... 10 to 55 V DC
Connectable load: brief operation (max. 1s) .......... max. 1 A
continuous operation .......... max. 350 mA

(Other units on request)
1) Bei Frequenz 50 Hz

Voltage (please indicate range when ordering)

Range I \( \Delta\mathcal{Y} 100-130 V / 173-225 V, 50 Hz \) \( \Delta\mathcal{Y} 0.90/0.53 A \)
\( \Delta\mathcal{Y} 120-156 V / 208-270 V, 60 Hz \)

Range II \( \Delta\mathcal{Y} 207-254 V / 360-440 V, 50 Hz \) \( \Delta\mathcal{Y} 0.50/0.29 A \)
\( \Delta\mathcal{Y} 249-305 V / 432-528 V, 60 Hz \)

Range III \( \Delta\mathcal{Y} 230-290 V / 398-500 V, 50 Hz \) \( \Delta\mathcal{Y} 0.40/0.23 A \)
\( \Delta\mathcal{Y} 290-346 V / 500-600 V, 60 Hz \)

Any voltages deviating from these ranges can only be used for
the respectively ordered voltage and frequency.