1. General description

The dosing monitor is designed to monitor the dosing of liquids which may cause gas accumulation in the dosing head, thus stopping the dosing process even if the pump is still operating.

During the dosing process, the dosing monitor gives pulse signals to the monitor input so that the pump can compare performed dosing strokes (from internal stroke sensor) with externally measured physical strokes (from the dosing monitor). If an external dosing stroke is not measured as a result of the internal dosing stroke, this is considered a fault that may have been provoked by empty tank or gas in the dosing head.

**DME/S 2 to 48**: The dosing monitor should be connected to the level input. This input must be configured for dosing monitoring. Consequently, it cannot be used as a level input.

**DME 60 to 940**: The dosing monitor should be connected to the input for dosing monitoring. This input must be configured for dosing monitoring. Once the input has been set to dosing monitoring and a dosing monitor has been connected and set, the dosing monitoring function will be active.

1.1 Definitions

**Correct dosing stroke**: A pulse from the dosing monitor corresponds to the internal stroke signal within acceptable time.

**Incorrect dosing stroke**: There is no pulse from the dosing monitor corresponding to the internal stroke signal within the acceptable time (the pump is not pumping).

1.2 Logic

If a number of incorrect dosing strokes are performed, the pump will continue operating, but it will change over to alarm mode. The red indicator light will be on and the alarm output, if any, will be activated (variant AR).

When a correct dosing stroke is detected, the red indicator light is turned off and the alarm output, if any, is deactivated.

2. Technical data

<table>
<thead>
<tr>
<th></th>
<th>10 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum pressure</td>
<td>10 bar</td>
</tr>
<tr>
<td>Maximum liquid temperature</td>
<td>50 °C</td>
</tr>
<tr>
<td>Maximum liquid viscosity</td>
<td>500 mPa s</td>
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</tbody>
</table>

*) **DME 60 to 940**: When pumping a liquid with a higher viscosity, it is recommended to test the performance with the liquid to be pumped.

**Materials in contact with the pumped liquid**

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Housing</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Gaskets</td>
<td>EPDM/FKM</td>
</tr>
</tbody>
</table>
3. Mounting and setting of dosing monitor

1. Mount the dosing monitor.
2. **DME/S 2 to 48**: Connect the dosing monitor, see fig. A, page 40.
   **DME 60 to 940**: Connect the dosing monitor, see fig. B, page 41.
3. Activate the monitor input in the "SETUP" menu. The function can be checked by letting air into the suction tube. This makes the pump change over to alarm mode (requires a certain counter pressure).

4. Disposal

   This product or parts of it must be disposed of in an environmentally sound way:
   1. Use the public or private waste collection service.
   2. If this is not possible, contact the nearest Grundfos company or service workshop.

Subject to alterations.
Fig. A  DME/S 2 to 48

1700 ml/h
Fig. B  DME 60 to 940