Betriebsanleitung / Operating Manual
Mode d’emploi / Instrucciones de servicio

Durchlaufgeber DGMa
DGMa In-Line Probe Housing
Chambre d’analyse DGMa
Detector de paso DGMa
Table of Contents

Please read the operating instructions through completely before commissioning this in-line probe housing!
Do not discard!
The operator shall be liable for any damages caused by installation or operating errors!

Identity Code Ordering System For In-Line Probe Housing Modules 20
General Notes for the User 21

1 About the In-Line Probe Housing 21
2 Safety 21
3 Description of Component Function 22
4 Storage and Transport 23

5 Assembly and Installation 23
   5.1 Assembly 23
   5.2 Hydraulic Installation 25
   5.3 Electrical Installation 26

6 Commissioning the DGMas 26
   6.1 Setting the Flow 26
   6.2 Setting the Switch Point of the Flow Sensor 26
   6.3 Calibrating the Sensors 27
   6.4 Replacing/Additing Modules 27

7 Troubleshooting 29
8 Disposal 30
9 Technical Data 30
   9.1 Flow Modules 30
   9.2 Flow Sensor 31

10 Replacement Parts and Accessories 31
11 Scale Drawing 32
12 List of Replacement Parts 33
Identcode

Identity Code Ordering System For In-Line Probe Housing Modules

<table>
<thead>
<tr>
<th>DGM</th>
<th>Flow Housing Module</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A Series Version</td>
</tr>
</tbody>
</table>

**Flow monitor module:**
- 0 No flow monitor
- 1 With l/h scale
- 2 With gph scale (US)
- 3 With flow sensor, l/h scale
- 4 With flow sensor, gph scale (US)

**Number of PG 13.5 modules:**
- 0 No PG 13.5 modules
- 1 One PG 13.5 module
- 2 Two PG 13.5 modules
- 3 Three PG 13.5 modules
- 4 Four PG 13.5 modules

**Number of 25 mm modules:**
- 0 No 25 mm modules
- 1 One 25 mm module*
- 2 Two 25 mm modules*

*assembly set required (791818)

**Main material:**
- Transparent PVC

**Seal material:**
- 0 FPM-A

**Connections:**
- 0 8 x 5 hose
- 1 PVC DN 10 threaded connector
- 9 Connector nipple/expansion module

**Versions:**
- 0 With ProMinent® logo
- 1 Without ProMinent® logo

**Accessories included:**
- Wall mounting for PG 13.5 module: calibration cup
- PG 13.5 sensor assembly set

The identity code below describes a fully assembled combination of flow monitor with sensor, two PG 13.5 modules (e.g. for pH and redox sensor) and a 25 mm module (e.g. for chlorine sensor CLE 3). Fitted with 8 x 5 hose connector.

**Recommended accessories:**
- Sensor mounting kit 25 mm (CLE, BRE, CGE, CTE, CDE, OZE): 791818
- For potential equaliser: plug 791663
- Flow sensor 791635
- Additional calibration cup 791229
- Sampling Tap for DGM for 13.5 module 1004737
- For 25 mm module 1004739

FPM = Fluoroelastomer

Accessories included:
- Wall mounting for PG 13.5 module: calibration cup
- PG 13.5 sensor assembly set

The identity code below describes a fully assembled combination of flow monitor with sensor, two PG 13.5 modules (e.g. for pH and redox sensor) and a 25 mm module (e.g. for chlorine sensor CLE 3). Fitted with 8 x 5 hose connector.

**Recommended accessories:**
- Sensor mounting kit 25 mm (CLE, BRE, CGE, CTE, CDE, OZE): 791818
- For potential equaliser: plug 791663
- Flow sensor 791635
- Additional calibration cup 791229
- Sampling Tap for DGM for 13.5 module 1004737
- For 25 mm module 1004739

FPM = Fluoroelastomer
General Notes for the User

Please read through the following notes. This information will help you use the operating manual more effectively.

Points are highlighted as follows:
• lists
  ▶ instructions

Operating advice:

NOTES
Notes are intended to make your job easier.

and safety advice:

WARNING
Describes a potentially dangerous situation. Non-observance can lead to serious personal injury!

IMPORTANT
Describes a potentially dangerous situation. Non-observance can lead to damage to property!

1 About the In-Line Probe Housing

The in-line probe housing has a modular structure. To maximise volume, it is designed so that one sensor can be installed in every module. The ideal flow around the sensors keeps response times low. The flow is guided towards the sensors from below.

The in-line probe housing modules are supplied pre-assembled on a mounting panel.

2 Safety

For use as specified below:
• The DGMa must be used exclusively for drinking water, swimming pool water or water of a similar quality that does not contain solid matter.
• Operate the in-line probe housing only within the conditions described in the technical data!
• All other applications and modifications are prohibited.
• The DGMa must not be used for gaseous or solid media.
• The DGMa must be assembled and installed by trained, authorized staff only.
• You shall be responsible for observing the information provided in the operating instructions at the various phases in the service life of the device!

Safety advice

IMPORTANT

• Before using the DGMa in corrosive media, check the resistance of the housing material (please refer to the chemical resistance list in ProMinent’s product catalogue or www.prominent.com).
• Observe the maximum operating parameters for the whole in-line probe housing (e.g. pressure, temperature). Take into account the lowest maximum operating parameters of the in-line probe housing components and sensors (please refer to the individual operating manuals). Please also note any temperature dependences.


3 Description of Component Function

The ball valve (1) regulates and stops the flow. The flow module (2) has a float (4), which indicates the flow. A flow sensor (3) monitors the flow. There is a reed contact (changeover) in the tip of the flow sensor, which opens if the float moves more than 2 mm away from the sensor or closer towards it.

The flow plug ensures optimal flow to the membrane capped DULCOTEST® sensors ("25 mm", pos. 10). It prevents air bubbles from forming on the membrane of the DULCOTEST® Perox sensor (PG 13.5, pos. 5).

The equipotential plug (8) contains a potential equaliser pin.

The outlet nozzle (6 or 10 for 25 mm or PG 13.5 version) (standard) and the sampling tap (11, 25 mm or PG 13.5 version) (optional) allow you to take water samples and empty a module. The calibration cup (8) can be used to calibrate the pH or redox sensors without dismantling them. It also has a potential equaliser pin.
4 Storage and Transport

**IMPORTANT**
- Store and transport the DGMas in its original packaging.
- Protect the DGMas from the effects of chemicals, even when packed.

**Environmental conditions**
- Storage and transport temperature: -10 °C ... + 60 °C
- Humidity: with flow sensor: max. 90 % relative humidity, non-condensing

5 Assembly and Installation

5.1 Assembly

**IMPORTANT**
- Observe the flow direction (there are arrows on the modules).
- Install the in-line probe housing horizontally in an upright position.
- If it contains a flow module, install the in-line probe housing vertically. Failure to do so may lead to problems with flow measurement.
- Leave a space of approx. 300 mm above and 100 mm below the modules for:
  - Installing the sensors
  - Setting the flow monitor
  - Screwing in the calibration cup
  - Taking samples

**NOTE**
Moistening the seals slightly first will make it easier to assemble the components of the in-line probe housing.

**Securing the mounting panel**
(Please observe dimensioned drawing! See figure 5):
- Drill 2 mounting holes in a smooth wall
- Secure the mounting panel to the wall.

**Installing the connections**
- Screw the ball valve onto the in-flow side
- Screw a connector set onto the ball valve
- Screw a connector set onto the out-flow side

**Installing the sensors and flow sensor**

**IMPORTANT**
The first module must be the in-line probe housing module.

**Sensor with PG 13.5 threaded connector** (please refer to the sensor operating manual):
- Remove the upper blanking plug of a module
- With pH and redox sensors, remove the transparent protective cap if there is one (do not discard the protective caps)
- Screw the reducing pipe nipple into the module
- Screw in the sensor
- With DULCOTEST® Perox sensors, screw the flow plug of an in-line probe housing module into the module from below
Sensor with a diameter of 25 mm (please refer to the sensor operating manual and figure 2):

**IMPORTANT**

Lower the sensor into the in-line probe housing slowly to avoid stretching the membrane.

- Remove the upper blanking plug of a 25 mm module
- First push the O-ring (4) and then the mounting plate (5) onto the sensor (3) from below
- Then push the retaining screw (1) onto the sensor (3) from above
- Insert the sensor (3) carefully into the modul
- Tighten the retaining screw (1)
- Screw a flow plug (6) into the bottom of the module

Figure 2
Installing the sensors
Flow sensor (see figure 3)
- Remove the upperBlanking plug of the flow module
- Push the flow sensor (1) into the flow module
- Tighten the reducing pipe nipple (3)
- Tighten the clamping nipple (2)

Figure 3
Installing the flow sensors

Installing additional accessories:
- Screw in the equipotential plug underneath the appropriate sensor
- Instead of a lower blanking plug, screw in the sampling tap (two sizes: PG 13.5 or d = 25 mm).

5.2 Hydraulic Installation

IMPORTANT
- Observe the maximum operating parameters for the whole in-line probe housing (e.g., pressure, temperature, flow)! Take into account the lowest maximum operating parameters of the in-line probe housing components and sensors (please refer to the individual operating manuals)! Please also note the temperature dependence of the maximum pressure!
- Assemble the in-line probe housing in such a way that the modules cannot drain off and fill with air, even when the water is stationary!
- There must be stop valves in the in-flow and out-flow of the module block!
- When assembling the in-line probe housing, take steps to prevent positive suction pressure from building up inside it!
- When installing the in-line probe housing in a free flow system, lay the out-flow cable in an ascending S-shape.
- Install a filter in the supply cable of the in-line probe housing if the water is contaminated (take into account any depletion caused by the filter).
- If the in-line probe housing is installed in a fixed pipe, the power supply must be switched off before the module block is fitted.

- Connect the in-flow cable to the ball valve connector set
- Connect the out-flow cable to the connector set on the out-flow side.
5.3 Electrical Installation

**WARNING**

- Connect the flow sensor to extra-low voltage circuits only (SELV) in accordance with EN 60335-1!
- The cable must have a diameter of 4 mm for the screwed cable gland to possess the type of protection IP 65.

- Take hold of the upper part of the flow sensor, turn it a quarter of a turn anticlockwise and remove it (bayonet fitting).
- Loosen the locking screw of the M12 connection and insert the cable from the alarm device.
- Strip 2 cm off the cable.
- Strip the ends of the wires and fit connector sleeves.
- Connect the flow sensor to the alarm unit in accordance with the following table:

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N/C</td>
</tr>
<tr>
<td>2</td>
<td>Source (I)</td>
</tr>
<tr>
<td>3</td>
<td>N/O</td>
</tr>
</tbody>
</table>

Technical data (voltage-free reed contact):

- Switch power: max. 3 W
- Switch voltage: max. 42 V (protective extra-low voltage (SELV))
- Switch current: max. 0.25 A

- Provide approx. 5 cm of spare cable inside the flow sensor and tighten the attachment screw of the M12 connection.
- Push the upper part of the sensor right into the housing and carefully turn it clockwise until it locks into place, taking care that the notches on the bayonet fitting do not break off.

6 Commissioning the DGMa

6.1 Setting the Flow

Use the ball valve to change the flow. Read the flow off the flow module (upper edge of the float).

6.2 Setting the Switch Point of the Flow Sensor

**IMPORTANT**

- It is possible for water to escape and spray around.
- Take appropriate measures, if necessary.

- A drop in the flow should cause the contact to open (the flow sensor is connected via an N/C contact (T1 – T2; N/C – C)).
- Use the ball valve to set the flow at 50 l/h
- Hold the flow sensor tightly and loosen the clamping nipple slightly
- Use the flow sensor to push the float down to 40 l/h – the connected alarm should be deactivated automatically
- Hold the flow sensor tightly and tighten the clamping nipple
- To test it, decrease the flow – this should activate the alarm
- Check that the threaded connector is sealed properly.
6.3 Calibrating the Sensors

**IMPORTANT**
- It is possible for water to escape and spray around. Take appropriate measures, if necessary.
- If a potential equaliser pin is used during measurement, a potential equaliser pin must also be connected during calibration and immersed in the same medium as the sensor (please refer to the operating manual of the measurement and control system).

**pH and redox sensors:**
P pH and redox sensors can also be calibrated/checked after installation. Use the calibration cup supplied for this purpose.

- Close the ball valve in the in-flow of the in-line probe housing
- Close the stop valve in the out-flow of the in-line probe housing
- Unscrew the blanking plug of the appropriate module
- Fill the calibration cup with buffer solution up to the mark
- Screw the calibration cup carefully into the module from below
- If a potential equaliser pin is used during measurement, connect the potential equaliser pin to the calibration cup.
- Calibrate/check the sensor (please refer to the operating manual of the control system).
- Unscrew the calibration cup and screw in the blanking plug
- Connect the potential equaliser pin of the blanking plug
- Open the ball valve slightly and check that the module is sealed properly before opening the system fully
- Set the flow as required (see section 6.1).

**Membrane capped sensors:**
Please refer to the operating manual for the sensor.

6.4 Replacing/Adding Modules

**IMPORTANT**
- It is possible for water to escape and spray around. Take appropriate measures, if necessary.
- All module connections are fragile. Tighten them gently by hand.

**NOTE**
- If you would like 4 or 5 modules instead of just 2 or 3, a mounting panel for 4 to 5 modules is required.
- Moistening the seals slightly first will make it easier to assemble the modules.

To replace a module, proceed as follows:

- Close the ball valve and, if there is one, the stop valve on the out-flow side
- Unscrew and store the sensors (please refer to the sensor operating manuals)
- Remove all hoses from the in-line probe housing
- Unscrew all modules and release them from the clamps
- Empty the modules
- If a larger mounting panel is required, remove the existing mounting panel from the wall
- Release the module that is to be replaced from the module block (figure 4 in reverse)
- Check that all O-rings are inserted on the connection nipples of the new module
- Moisten the connection nipple of the new module with water
- Place the new module on the module block as shown in figure 4.
Commissioning the DGMa

IMPORTANT

• All of the arrows on the modules must point in the same direction.
• If the modules cannot be screwed in easily, start again.
  If you do not, the connection will not be sealed properly and you will not be able to separate the modules again without damaging them.

➤ Turn the module clockwise until it is straight upside down
➤ If a larger mounting panel is required, move the clamps
➤ Press the new module block into the mounting panel clamps
➤ Close the outlet nozzle or the sampling tap
➤ If it has been removed, screw the mounting panel back onto the wall
➤ Screw in the sensors and, if necessary, calibrate them (please refer to the sensor operating manuals)
➤ Connect the hoses of the in-line probe housing
➤ Open the ball valve and, if there is one, the stop valve on the out-flow side slightly
➤ Check that the modules are sealed properly
➤ Set the flow

Figure 4
Replacing/adding modules

1. Attach the module (front view)
2. Turn it clockwise (side view)
3. Ready (front view)
7 Troubleshooting

**IMPORTANT**
It is possible for water to escape and spray around. Take appropriate measures, if necessary.

**Failure:** the float does not show the correct flow rate or has become stuck  
**Reason:** dirt in the water in the in-line probe housing module  
**Remedy:** clean the module and the float using a cloth and test tube brush, or other similar item, and, if necessary, insert a filter

**IMPORTANT**
Do not use chemical cleaning agents! They may attack the DGMa!

**Reason:** the in-line probe housing module is not completely straight  
**Remedy:** install the in-line probe housing module so that it is vertical

**Failure:** the flow sensor contact does not open  
**Reason:** the reed contact has jammed because the electrical voltage was too high (even if only for a short period)  
**Remedy:** reduce the voltage using a protective resistor and replace the flow sensor

**Failure:** the reading produced by a pH or redox sensor is unstable. It cannot be calibrated.  
**Reason:** a potential equaliser pin has not been connected although the measurement and control system has been prepared for it.  
**Remedy:** connect a potential equaliser pin (use an equipotential plug)

**Reason:** the measurement and control system has not been prepared for measurement with a potential equaliser pin (e.g. there is no jumper in the system)  
**Remedy:** prepare the measurement and control system for this type of measurement (e.g. jumper two terminals in the system)

**Reason:** the measurement and control system has not been prepared for measurement without a potential equaliser pin (e.g. terminals 9 and 10 in the DULCOMETER® D1C have not been jumpered)  
**Remedy:** prepare the measurement and control system for this type of measurement (e.g. connect a jumper in the system)

**Reason:** the sensor is dirty, defective or requires regeneration  
**Remedy:** clean, replace or regenerate the sensor (please refer to the sensor operating manual)

**Reason:** there is air in the in-line probe housing  
**Remedy:** install the in-line probe housing correctly (please refer to the "Installation" section)  
Open the stop valves fully and increase the flow rate to a maximum of 100 l/h until the air is forced out of the in-line probe housing

**Failure:** the sampling tap does not release any water  
**Reason:** positive suction pressure in the in-line probe housing  
**Remedy:** install the in-line probe housing correctly (please refer to the "Installation" section)

**Failure:** the flow changes over a few hours  
**Reason:** the module admission pressure is not constant  
**Remedy:** check the function of the pump in front of the in-line probe housing. Check that the pump has been installed correctly.
8 Disposal

IMPORTANT
Please observe the applicable national regulations.

You may return the decontaminated used equipment to ProMinent Dosiertechnik GmbH, Heidelberg, against prepaid postage.

9 Technical Data

IMPORTANT

- The maximum operating parameters for the whole in-line probe housing (e.g. pressure, temperature, flow) are the lowest maximum operating parameters of the in-line probe housing components and sensors (please refer to the individual operating manuals)!
- Please also take the technical data of all other parts used, e.g. sensors, and their operating manuals into account!

<table>
<thead>
<tr>
<th>Storage and transport temperature</th>
<th>-10 °C ... + 60 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>with flow sensor: max. 90 % relative humidity, non-condensing</td>
</tr>
</tbody>
</table>

9.1 Flow Modules

**Weight**
- approx. 245 g (PG 13.5 module)
- approx. 475 g (25 mm module)

**Material**
- all modules: transparent PVC
- all fittings: grey PVC
- seals: FPM
- calibration cup: PP
- mounting panel: white PVC

**Temperature**
- max. 50 °C

**Max. pressure**
- without flow sensor, 30 °C: 6 bar
- without flow sensor, 50 °C: 1 bar
- with flow sensor, 30 °C: 2 bar

**Flow rate**
- max. 80 l/h (40 l/h recommended)

**Measuring accuracy of the flow module**
- ±5 l

**Pressure loss in fitted modules**
- flow module: 12 mbar (12 cm WS)
- PG 13.5 module: 2 mbar (2 cm WS)
- 25 mm module: 20 mbar (20 cm WS)
9.2 Flow Sensor

Protection system          IP 65
Terminal connector cross section  0.1 mm² ... 1.0 mm²
Connecting cable cross section 4 mm

Data for the voltage-free reed contact in the flow sensor:
Switch power                        max. 3 W
Switch voltage                      max. 42 V (protective extra-low voltage (SELV))
Switch current                      max. 0.25 A
Operating current                   max. 1.2 A
Contact resistance                  max. 150 mW
Switch hysteresis of the flow sensor approx. 15 %

10 Replacement Parts and Accessories

Order No.
Assembly set for 25 mm sensor    791818
(CLE, BRE, CGE, CTE, CDE, OZE)
for potential equaliser: plug   791663
Flow sensor, complete           791635
Calibration cup                  791229
Sampling tap
for 25 mm module                1004739
for PG 13.5 module              1004737
Flow plug for PG 13.5 module    791703
Extension module flow with scale l/h 1023923
Extension module flow with scale gph 1023973
Flow sensor for extension module flow (optional) 791635
Extension module PG 13.5 sensors 1023975
Extension module for 25 mm sensors 1023976
Figure 5
Scale drawing, exemplary version
12 List of Replacement Parts

Figure 6
Spare Parts
<table>
<thead>
<tr>
<th>Pos.</th>
<th>Type</th>
<th>No. of</th>
<th>Description</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DGMa in-line probe housing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>1</td>
<td>Flow sensor cpl. PC</td>
<td>791635</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>1</td>
<td>Floating cpl. PC</td>
<td>791634</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>1</td>
<td>Mounting plate 258x10x135 (2/3 mod.)</td>
<td>1001853</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>1</td>
<td>Mounting plate 412x10x135 (4/5 mod.)</td>
<td>1001855</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>2</td>
<td>Screwing set cpl. DN10 PC1</td>
<td>791665</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>1</td>
<td>DGM module without logo PVC-transparent</td>
<td>791667</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>1</td>
<td>DGM module with logo PVC-transparent</td>
<td>791217</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>1</td>
<td>Flow meter module gph without logo PVC-transparent</td>
<td>791671</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>1</td>
<td>Flow meter module l/h without logo PVC-transparent</td>
<td>791670</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>1</td>
<td>Flow meter module l/h with logo PVC-transparent</td>
<td>791637</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>1</td>
<td>DGM mod. 25 mm without logo PVC-transparent</td>
<td>791674</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>1</td>
<td>DGM module 25 mm with logo PVC-transparent</td>
<td>791673</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>1</td>
<td>Red nipple M30/PG13.5-d14.8 PVDF</td>
<td>791218</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>2</td>
<td>Blanking plug M30x4 P2 PVDF</td>
<td>791220</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>1</td>
<td>Connection nipple M20x6 P2 P</td>
<td>791226</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>1</td>
<td>Connection nipple M20x6x2-M20x1.5 P</td>
<td>791227</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>1</td>
<td>Blanking plug M20x1.5 P</td>
<td>791235</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>1</td>
<td>Flow plug M30x4 P2 P</td>
<td>791703</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>1</td>
<td>Blanking plug M34x1.5 PVDF</td>
<td>791734</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>1</td>
<td>Clamped disk d31.3/25.5x1.5 P</td>
<td>791733</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>1</td>
<td>Connection nipple G1/4xM20x1.5 P</td>
<td>10060266</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>1</td>
<td>Red nipple M30/PG13.5-d16</td>
<td>791688</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>1</td>
<td>Attachment screw M34x1.5-d25.5 PVDF</td>
<td>791732</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>1</td>
<td>Equipotential plug w. red PC1</td>
<td>791663</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td>1</td>
<td>Clamped nipple PG 13.5-d15.5 P</td>
<td>791223</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>1</td>
<td>Flow plug M34x1.5 P</td>
<td>740207</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td>1</td>
<td>Clamped disk d18.5x15.5x2 P</td>
<td>791225</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td>1</td>
<td>Holding nut for mounting plate PP</td>
<td>1001856</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td>1</td>
<td>PT-screw KB 50x20 galvanized</td>
<td>468445</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td>1</td>
<td>Sampling tap for 25 mm module</td>
<td>1004739</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>1</td>
<td>Sampling tap for PG 13.5 module</td>
<td>1004737</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td>1</td>
<td>Outlet nozzle DGMa cpl. M13.5</td>
<td>1008770</td>
</tr>
<tr>
<td>32</td>
<td></td>
<td>1</td>
<td>Outlet nozzle DGMa cpl. M25</td>
<td>1008771</td>
</tr>
<tr>
<td>33</td>
<td></td>
<td>1</td>
<td>Connection nipple M20x6 PxG1/4 P</td>
<td>1006235</td>
</tr>
<tr>
<td>34</td>
<td></td>
<td>1</td>
<td>O-ring/m 9.00 - 2.50 83FPM-A</td>
<td>791496</td>
</tr>
<tr>
<td>35</td>
<td></td>
<td>1</td>
<td>O-ring/m 10.00 - 2.00 83FPM-A</td>
<td>481027</td>
</tr>
<tr>
<td>36</td>
<td></td>
<td>1</td>
<td>O-ring/K 13.00 - 2.55 83FPM-A</td>
<td>481013</td>
</tr>
<tr>
<td>37</td>
<td></td>
<td>2</td>
<td>O-ring/m 14.00 - 2.00 83FPM-A</td>
<td>791639</td>
</tr>
<tr>
<td>38</td>
<td></td>
<td>1</td>
<td>O-ring/m 15.00 - 2.00 83FPM-A</td>
<td>481017</td>
</tr>
<tr>
<td>39</td>
<td></td>
<td>1</td>
<td>O-ring/m 17.17 - 1.78 83FPM-A</td>
<td>791989</td>
</tr>
<tr>
<td>40</td>
<td></td>
<td>1</td>
<td>O-ring/m 20.00 - 2.50 83FPM-A</td>
<td>481020</td>
</tr>
<tr>
<td>41</td>
<td></td>
<td>1</td>
<td>O-ring/m 24.00 - 2.00 83FPM-A</td>
<td>481034</td>
</tr>
<tr>
<td>42</td>
<td></td>
<td>1</td>
<td>O-ring/m 25.00 - 3.50 83FPM-A</td>
<td>1002722</td>
</tr>
</tbody>
</table>

Subject to technical alterations.