“GMS” and “CMS” polymers pumps can be supplied with acrylic pump heads for dosing viscous chemicals (max 50,000 cps).

“GMS” pumps for polymers, for wall mounting, have 25 l/h maximum capacity.

More versatile “CMS” pumps for polymers, with stroke length adjustment, have 40 l/h maximum capacity.

Wide control opportunities, without any external pacer, such as pulse division and multiplication, 4 ÷ 20 mA, mV and V input.

Features pH and ORP potential (Redox) built-in instruments.
**CMS POLYMERS**

**CMS PV**
Constant-Proportional pump driven by external digital signal, with pulse divider mode

**CMS IC**
Constant-Proportional pump driven by current signal (0 / 4mA = 0 pulses; 20mA = max pulses) and level control

**CMS IC**
Constant-Proportional pump driven by current signal (0 / 4mA = 0 pulses; 20mA = max pulses) and level control

**CMS EXT**
Multifunction-Proportional pump with analogic and digital signal input, level control

**CMS PH**
Proportional pump driven by internal built-in pH meter (0÷14pH) and level control

**CMS MAN**
Constant pump with level control and frequency digital control

**CMS CO**
Constant pump with stroke speed adjustment and stroke length adjustment

**CMS EXT/485**
Remote controlled CMSP EXT pump via RS485

**CMS RH**
Proportional pump driven by internal built-in Redox (ORP Potential) meter (0 ± 1000mV) and level control

---

<table>
<thead>
<tr>
<th>Input Signals</th>
<th>CMSP CO</th>
<th>CMSP IS</th>
<th>CMSP PV</th>
<th>CMSP PVM</th>
<th>CMSP IC</th>
<th>CMSP MAN</th>
<th>CMSP EXT</th>
<th>CMSP PH</th>
<th>CMSP RH</th>
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<td>None</td>
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<td>Redox probe</td>
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<td>Digital Pulses</td>
<td>Digital Pulses</td>
<td>Digital Pulses</td>
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<td>pH meter proportional</td>
<td>Redox meter proportional</td>
<td>Pulse Divider and Multiplier Analog signal proportional range definition</td>
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</table>
# Metering Pumps

## GMS Polymers

### GP CO
Constant pump with stroke speed adjustment

### GP PV
Constant-Proportional pump driven by external digital signal, with pulse divider mode

### GP IS
Constant-Proportional pump driven by external digital signal, with level control: to each external pulse correspond one pump stroke

### GMSP MAN
Constant pump with level control and stroke frequency digital control

### GMSP PH
Proportional pump driven by internal built-in pH meter (0÷14pH) and level control

### GMSP RH
Proportional pump driven by internal built-in Redox (ORP) meter (0÷1000mV) and level control

<table>
<thead>
<tr>
<th>Input Signals</th>
<th>GP CO</th>
<th>GP IS</th>
<th>GP PV</th>
<th>GP PVM</th>
<th>GP IC</th>
<th>GMSP MAN</th>
<th>GMSP EXT</th>
<th>GMSP PH</th>
<th>GMSP RH</th>
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<td>mA Current</td>
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<td>pH probe</td>
<td>Redox probe</td>
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<tr>
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<td>None</td>
<td>Stroke speed</td>
<td>Pulse Divider and Multiplier</td>
<td>Analog signal proportional range definition</td>
<td>pH meter proportional</td>
<td>Redox meter proportional</td>
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<tr>
<th>Internal Controller</th>
<th>GP CO</th>
<th>GP IS</th>
<th>GP PV</th>
<th>GP PVM</th>
<th>GP IC</th>
<th>GMSP MAN</th>
<th>GMSP EXT</th>
<th>GMSP PH</th>
<th>GMSP RH</th>
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<td>pH meter proportional</td>
<td>Redox meter proportional</td>
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# Technical Data of All Models

## Pump Head

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity l/h</th>
<th>Pressure bar</th>
<th>ml/Stroke</th>
<th>Strokes/min.</th>
<th>Suction Hoses mm</th>
<th>Delivery Hoses mm</th>
<th>Max Viscosity cps</th>
<th>Watt</th>
<th>Shipping weight Kg</th>
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<tr>
<td>8 02</td>
<td>02 l/h</td>
<td>8</td>
<td>7</td>
<td>4</td>
<td>0.28</td>
<td>120</td>
<td>16 x 22</td>
<td>50.000</td>
<td>40 W</td>
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<td>04 l/h</td>
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<td>3</td>
<td>0.56</td>
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<td>16 x 22</td>
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<td>27</td>
<td>2</td>
<td>1.4</td>
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<td>16 x 22</td>
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<td>40 W</td>
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<td>45</td>
<td>1</td>
<td>3.5</td>
<td>120</td>
<td>16 x 22</td>
<td>50.000</td>
<td>40 W</td>
</tr>
<tr>
<td>1 40</td>
<td>40 l/h</td>
<td>1</td>
<td>66</td>
<td>0.5</td>
<td>5.6</td>
<td>120</td>
<td>16 x 22</td>
<td>50.000</td>
<td>40 W</td>
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</table>

## GMS

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity l/h</th>
<th>Pressure bar</th>
<th>ml/Stroke</th>
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<th>Watt</th>
<th>Shipping weight Kg</th>
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<td>6</td>
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<td>22 W</td>
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<tr>
<td>4 03</td>
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<td>0.5 25</td>
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<td>9</td>
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<td>120</td>
<td>16 x 22</td>
<td>50.000</td>
<td>27 W</td>
</tr>
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</table>

Flow rate indicated are referred to 50.000 cps max viscosity. Working back pressure changes in function of viscosity.

Viton® is a registered trademark of DuPont Dow Elastomers.