**High Pressure Chemical Process Metering**

The ProMinent® ProMus is a motor driven metering pump with a **hydraulically actuated Teflon diaphragm**. The plunger and diaphragm are hydraulically coupled and are precisely controlled by a mechanically actuated replenishment valve, which senses diaphragm position to admit coupling fluid as needed. The coupling fluid is automatically degassed to maintain accuracy and the drive case is protected from overload by a simple acting relief valve. The movement of the diaphragm depends on the amount of liquid displaced by the plunger.

**Features and benefits**

- Hydraulically actuated diaphragm ensuring a sealed pumping system for corrosive or toxic chemicals with superior leak protection
- Built in accordance to API 675 standards suitable for heavy industrial applications and specifications
- Flexible design for a wide range of applications including water treatment and high pressure chemical refining
- Fast and Easy field maintenance with minimal downtime
- Available in PVDF, Stainless Steel, Alloy 20 and Hastelloy C liquid end materials

**Applications**

- Chemical process applications
- Boiler feed and Catalyst feed
- Petrochemical applications
- Low flow - high pressure applications
- Heavy industrial applications
- Water and wastewater treatment
- Sodium hypochlorite (Bleach) feed applications
- Dye injections

**Flow rates up to 101 gph (382 l/h)**  
**Pressures up to 3500 psi (241 bar)**
ProMus Series

Experts in Chem-Feed and Water Treatment

Capacity data

At 60 Hz (1750 rpm)

<table>
<thead>
<tr>
<th>Plunger (in.)</th>
<th>psig (plastic)</th>
<th>Bar (plastic)</th>
<th>psig (metal)</th>
<th>Bar (metal)</th>
<th>U.S. GPH (l/min)</th>
<th>Stroke/ min.</th>
<th>U.S. GPH (l/min)</th>
<th>Stroke/ min.</th>
<th>Max. Backpressure</th>
<th>Max Stroke Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>3/8&quot; Plunger</td>
<td>230</td>
<td>16</td>
<td>3500</td>
<td>172</td>
<td>0.61 (2.3)</td>
<td>50</td>
<td>35</td>
<td></td>
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</tr>
<tr>
<td>5/8&quot; Plunger</td>
<td>230</td>
<td>16</td>
<td>3500</td>
<td>172</td>
<td>0.76 (2.8)</td>
<td>40</td>
<td>43</td>
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<tr>
<td>7/16&quot; Plunger</td>
<td>230</td>
<td>16</td>
<td>3500</td>
<td>172</td>
<td>1.02 (3.8)</td>
<td>30</td>
<td>58</td>
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</tr>
<tr>
<td>11/32&quot; Plunger</td>
<td>230</td>
<td>16</td>
<td>3500</td>
<td>172</td>
<td>2.03 (7.6)</td>
<td>15</td>
<td>115</td>
<td></td>
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<tr>
<td>3/4&quot; Plunger</td>
<td>230</td>
<td>16</td>
<td>3500</td>
<td>172</td>
<td>2.44 (9.2)</td>
<td>12.5</td>
<td>138</td>
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</table>

At 50 Hz (1458 rpm)

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<th>psig (plastic)</th>
<th>Bar (plastic)</th>
<th>psig (metal)</th>
<th>Bar (metal)</th>
<th>U.S. GPH (l/min)</th>
<th>Stroke/ min.</th>
<th>U.S. GPH (l/min)</th>
<th>Stroke/ min.</th>
<th>Max. Backpressure</th>
<th>Max Stroke Rate</th>
</tr>
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<td>Size 17</td>
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</tr>
<tr>
<td>3/8&quot; Plunger</td>
<td>230</td>
<td>16</td>
<td>3500</td>
<td>172</td>
<td>0.83 (3.1)</td>
<td>50</td>
<td>35</td>
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<tr>
<td>5/8&quot; Plunger</td>
<td>230</td>
<td>16</td>
<td>3500</td>
<td>172</td>
<td>0.94 (3.4)</td>
<td>40</td>
<td>43</td>
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</tr>
<tr>
<td>7/16&quot; Plunger</td>
<td>230</td>
<td>16</td>
<td>3500</td>
<td>172</td>
<td>1.38 (5.2)</td>
<td>30</td>
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<tr>
<td>3/4&quot; Plunger</td>
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<td>2.77 (10.4)</td>
<td>15</td>
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<td>3.32 (12.5)</td>
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</tr>
</tbody>
</table>

Typical suction/discharge connection

* 50Hz gear not available for 50 Hz operation

ProMinent Fluid Controls, Inc. (US)
136 Industry Drive,
Pittsburgh, PA 15275-1014
Tel: (412) 787-2484
Fax: (412) 787-0704
eMail: sales@prominent.us
www.prominent.us

ProMinent Fluid Controls Ltd. (Canada)
490 Southgate Drive,
Guelph, ON N1G 4P5
Tel: 1-888-709-9933 | (519) 836-5692
Fax: (519) 836-5226
eMail: sales@prominent.ca
www.prominent.ca