QPA 1000 Quintuplex Plunger Pump

Serva QPA 1000 Quintuplex Plunger Pumps are good for high-pressure well service. Each pump is equipped with a chain case. The Quintuplex Pump is designed to pump cement slurries, sand-laden fluids, crude oil, acids, mud and other oil well servicing fluids.

QPA 1000 Main Specifications

<table>
<thead>
<tr>
<th>Power End</th>
<th></th>
<th>Standard Equipment and Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Max Brake Horsepower</td>
<td>1000</td>
<td>Fluid End</td>
</tr>
<tr>
<td>Maximum Rod Load</td>
<td>100,000 lbf</td>
<td>- Forged alloy steel mono-block fluid end with removable stuffing box</td>
</tr>
<tr>
<td>Stroke Length</td>
<td>6”</td>
<td>- Valve over valve fluid end</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>4:6:1</td>
<td>- Left or right side suction and discharge connections</td>
</tr>
<tr>
<td>Plunger</td>
<td>3” to 4.5”</td>
<td>- Suction manifold with Victaulic connections</td>
</tr>
<tr>
<td>Pump Weight</td>
<td>7,000lbs</td>
<td>- Hard coated plungers</td>
</tr>
</tbody>
</table>

Power End Features

- Crankshaft construction
- Pressure lubricated wrist pins through crankshaft
- Ground, honed crosshead guides
- Proprietary crosshead coating
- Left or right gear box mounting
- 16 input drive positions

Standard Equipment and Features

Fluid End

- Forged alloy steel mono-block fluid end with removable stuffing box
- Valve over valve fluid end
- Left or right side suction and discharge connections
- Suction manifold with Victaulic connections
- Hard coated plungers
- High performance header-ring style packing
- Center-gauge connection
- Fabricated steel suction manifold
- Replaceable alloy steel wing guided valves
- Replaceable urethane valve inserts

Call SERVAgroup today 918-266-0700.
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**QPA 1000 Quintuplex Plunger Pump**

The QPA 1000 is an industry standard design with a well-proven history of performance in most pumping applications.

### Quintuplex Plunger Pump Intermittent Well Service Ratings

<table>
<thead>
<tr>
<th>Plunger Diameter</th>
<th>Displacement per Revolution</th>
<th>50/230</th>
<th>120/552</th>
<th>200/920</th>
<th>300/1380</th>
<th>450/2070</th>
</tr>
</thead>
<tbody>
<tr>
<td>in (mm)</td>
<td>gal/rev (l/rev)</td>
<td>gpm (lpm)</td>
<td>psi (mpa)</td>
<td>gpm (lpm)</td>
<td>psi (mpa)</td>
<td>gpm (lpm)</td>
</tr>
<tr>
<td>3&quot; (76.2)</td>
<td>92 (3.5)</td>
<td>47 (173)</td>
<td>14,147 (97.6)</td>
<td>110 (417)</td>
<td>14,003 (96.6)</td>
<td>183 (695)</td>
</tr>
<tr>
<td>3 1/2&quot; (88.9)</td>
<td>1,25 (4.7)</td>
<td>62 (237)</td>
<td>10,394 (71.7)</td>
<td>150 (568)</td>
<td>10,288 (71.0)</td>
<td>250 (947)</td>
</tr>
<tr>
<td>4&quot; (101.6)</td>
<td>1,63 (6.2)</td>
<td>82 (308)</td>
<td>7,958 (54.9)</td>
<td>197 (742)</td>
<td>7,877 (54.3)</td>
<td>327 (1235)</td>
</tr>
<tr>
<td>4 1/2&quot; (114.3)</td>
<td>2,07 (7.8)</td>
<td>103 (392)</td>
<td>6,288 (43.4)</td>
<td>248 (938)</td>
<td>6,224&quot; (42.9)</td>
<td>413 (1563)</td>
</tr>
</tbody>
</table>

*Input Power BHP (kw)*  
421 (314)  
1000 (746)  
1000 (746)  
1000 (746)  
1000 (746)

*Based on 90% ME and 100% VE - Intermittent Service Only*