**CP124 Clutch Pump Series Features**

- Cubic inch displacements from 0.62 through 2.48
- Speeds to 3000 RPM and pressures to 3500 PSI
- SAE “A” mounting with bracket or Pad mounting available
- Heavy duty sleeve bushing design in a small frame size
- Doweled and high strength 3 piece cast iron construction
- 100% factory tested
- High strength alloy steel gear and shaft set
- NPT, O’ring, or split flange porting located on the rear and/or side
- Only high torque clutches used with all the popular clutch configurations available
- Pressure balanced wear plates maintain high pump efficiency throughout all operating ranges
- Typical applications include recovery vehicles, snow plows, spreaders, utility vehicles, winches, small hoists, aerial devices, lift gates, cranes, and light duty equipment

<table>
<thead>
<tr>
<th>GEAR WIDTH (IN)</th>
<th>DISPL CU IN/CC</th>
<th>GPM/LITERS @ 1000 RPM</th>
<th>MAX RPM</th>
<th>MIN RPM</th>
<th>MAX PSI/BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>.50</td>
<td>.62/10</td>
<td>2.2/8.3</td>
<td>3000</td>
<td>600</td>
<td>3500/241</td>
</tr>
<tr>
<td>.75</td>
<td>.93/15</td>
<td>3.6/13.6</td>
<td>3000</td>
<td>600</td>
<td>3500/241</td>
</tr>
<tr>
<td>1.00</td>
<td>1.24/20</td>
<td>4.9/18.5</td>
<td>3000</td>
<td>600</td>
<td>3500/241</td>
</tr>
<tr>
<td>1.25</td>
<td>1.55/25</td>
<td>6.1/23.1</td>
<td>3000</td>
<td>600</td>
<td>3500/241</td>
</tr>
<tr>
<td>1.50</td>
<td>1.86/30</td>
<td>7.4/28.0</td>
<td>3000</td>
<td>600</td>
<td>3200/220</td>
</tr>
<tr>
<td>1.75</td>
<td>2.17/35</td>
<td>8.8/33.3</td>
<td>3000</td>
<td>600</td>
<td>2900/200</td>
</tr>
<tr>
<td>2.00</td>
<td>2.48/40</td>
<td>10.0/37.9</td>
<td>3000</td>
<td>600</td>
<td>2500/172</td>
</tr>
</tbody>
</table>
**Clutch Pump Kit Model Number Construction**

- **Clutch Pump/Series**: CP124  P  S  B  P  R  A  S
- **Switch Kit**:
  - S - Switch Kit Included
  - X - No Switch Kit Included
- **Clutch**:
  - A - 90° lb. ft. AA Groove
  - 6 - 90° lb. ft. 6 Groove K Type Serpentine
  - 8 - 90° lb. ft. 8 Groove K Type Serpentine
  - X - No Clutch
- **Rotation**:
  - R - Right-hand (Clockwise)
  - L - Left-hand (Counter Clockwise)
- **Port Type**:
  - P - NPT
  - O - O’ring
  - F - Split Flange (Code 61)

<table>
<thead>
<tr>
<th>GPM @ 1000 RPM, at rated PSI</th>
<th>2</th>
<th>.50 inch gear</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>.75 inch gear</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1.00 inch gear</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.25 inch gear</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1.50 inch gear</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1.75 inch gear</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>2.00 inch gear</td>
<td></td>
</tr>
</tbody>
</table>

**Port Location**

- **B** - Both Side and Rear (1 1/4” NPT Inlet, 3/4” NPT Pressure Standard)
- **R** - Rear Only (1 1/4” NPT or O’ring Inlet, 1” NPT or O’ring Pressure)
- **S** - Side Only (1 1/4” NPT, O’ring or Split Flange Inlet, 1” NPT, O’ring or Split Flange Pressure)

**CP124 Performance Chart/Specifications**

<table>
<thead>
<tr>
<th>RPM</th>
<th>1000</th>
<th>1500</th>
<th>2000</th>
<th>2500</th>
<th>3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPM (at rated PSI)</td>
<td>0</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
</tr>
</tbody>
</table>

Though the pump and clutch will handle these flows and pressures, belt slippage may occur. Maximum inlet vacuum should not exceed 5 IN. HG.
**Pad Mount Foot Print**

- 7/16 - 14 UNC-28 Thread Thru 2 Places
- 1/4 - 20 UNC-28 Thread Thru 4 Places

**Pad Mount Shaft End Cover**

- 1 1/4" NPT Suction Ports, Side and Rear Standard
- 3/4" NPT Pressure Ports, Side and Rear Standard

**Pad Mount with Dual Ports**

- Gear Width plus .4/10.16
- 2.63/66.68

**Pad Mount with 6 Groove Serpentine Clutch**

- 2.42/61.49

**Pad Mount with 8 Groove Serpentine Clutch**

- 2.42/61.49

**SAE 2 Bolt A with Bracket, Dual Ports, AA Groove Clutch**

- 6.00/152.40

**SAE 2 Bolt A with Bracket, 6 Groove Serpentine Clutch**

- 6.00/152.40

**SAE 2 Bolt A with Bracket, 8 Groove Serpentine Clutch**

- 5.47/138.94

**Bracket Mount Foot Print**

- 1/2 Inch Diameter Mounting Holes Thru 4 Places
- 3/8-16 UNC Thread Thru 2 Places

**Bracket Mount**

- 1/4 - 20 UNC-28 Thread Thru 4 Places
- 2.28/57.94

**Optional Side or Rear Only Port End Cover**

- 3.50/88.90
- 2.75/69.85

Drawings not necessarily to scale. Permco reserves the right to make changes in an ongoing effort to improve the product.
Permco warrants that its products will not fail due to defects in materials and workmanship. Failure of any product or any one of its components to perform in accordance with design specifications, which failure occurs more than (2) two years or 4,000 hours, whichever is less, from the date of shipment of the product from its point of manufacture, shall be presumed to result from deterioration caused by ordinary use. Permco's obligation in the case of defective workmanship or material is limited to replacement or repair of the defective product, or the defective component therein, at Permco's option, in accordance with the procedures explained herein.

$ This warranty is given in lieu of all other warranties, expressed or implied.

$ There are no warranties which extend beyond the description on the face hereof.

When buyer claims a breach of the limited warranty set forth above, the buyer must notify Permco or its agents promptly, whereupon Permco at its option will either examine the product in question at the site, or issue shipping instructions for its return to Permco or one of its authorized warranty repair centers. Transportation cost must be prepaid by buyer on all returns. Credit for freight in and out, based on surface freight rates will be issued if the inspection of the goods shows a defect in materials or workmanship covered by the limited warranty.