FEATURES

- Low amp draw for compatibility with portable machines.
- Smooth, quiet operation for sound sensitive areas.
- Special Hi-Pressure and Lo-Pressure Seals offer exceptional life.
- RTP heat resistant fluid end and Regulator.
- Mechanically actuated plungers offer greater efficiency.
- Direct coupled motors for compact, easy assembly or convenient belt drive mounting option.
- Pump comes with oil in the crankcase.

INSTALLATION: Connect a flexible hose equal to or one size larger than the inlet port at the bottom of the pump body. Connect a flexible high pressure hose to the regulator discharge port at the side of the regulator. Connect a by-pass hose to the bottom port of the regulator and run to drain or supply tank.

CAUTION

Do not over tighten the RTP pump or regulator body.

FUEL TYPE

- Axial Plunger Pumps
  - Models: 1LX100, 1LXB100
  - 1LX125
  - 1LXB100

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Models 1LX100, 1LXB100</th>
<th>U.S. Measure</th>
<th>Metric Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow .....................</td>
<td>1.0 GPM</td>
<td>3.8 L/M</td>
</tr>
<tr>
<td>Stroke ...................</td>
<td>0.29&quot;</td>
<td>7.4 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model 1LX125</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow .....................</td>
<td>1.25 GPM</td>
<td>4.75 L/M</td>
</tr>
<tr>
<td>Stroke ...................</td>
<td>0.35&quot;</td>
<td>8.9 mm</td>
</tr>
</tbody>
</table>

COMMON SPECIFICATIONS

- Max. Discharge Pressure: 500 PSI (35 BAR)
- Max. Inlet Pressure: Flooded to +20 PSI (Flooded to +1.4 BAR)
- RPM: 1725 RPM (1725 RPM)
- Bore: 0.47" (12 mm)
- Crankcase Capacity: 2.23 oz. (66 ml)
- Max. Liquid Temperature: 160°F (71°C)
- Inlet Fitting: 1/2" NPTF
- By-Pass Ports: 1/4" NPTF
- Discharge Ports: 1/4" NPTF
- Manifold Fitting: 3/8" NPTF
- Weight: 2.65 lbs. (1.2 kg)
- Dimensions: 4.4 x 3.2 x 8.4" (112 x 81 x 212 mm)

HORSEPOWER REQUIREMENTS

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow</th>
<th>Pressure</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U.S. GPM</td>
<td>L/M</td>
<td>PSI 100</td>
</tr>
<tr>
<td>1LX100, 1LXB100</td>
<td>1.0</td>
<td>3.8</td>
<td>.05</td>
</tr>
<tr>
<td>1LX125</td>
<td>1.25</td>
<td>4.75</td>
<td>.08</td>
</tr>
</tbody>
</table>

“Customer confidence is our greatest asset”
OPERATION: The 1LX pumps are axial plunger pumps. Special direct drive motors are secured to the pump with a V-Clamp Mounting or Belt Drive option.

The motor rotates the offset cam and guide plate which is connected to the three plungers. Each plunger moves forward at a different stage of the cam rotation, providing a smooth, forward, liquid flow through the pump.

On the back stroke, the liquid enters the inlet chamber and flows through each inlet valve. As the stroke reaches the forward position, the inlet valve closes.

On the forward stroke, the liquid goes through the seat and forces the discharge valve to open to allow the liquid out to the regulator discharge port.

For warranty consideration, please contact CAT PUMPS for local Service Center. If you are uncertain as to the cause of failure (pump or motor), secure a Returned Goods Authorization Number and return the complete assembly to CAT PUMPS for evaluation.

WARRANTY

6 Month Warranty
Refer to complete CAT PUMPS Warranty for further information.
Models 1LX100, 1LX125, 1LXB100

1. High strength, lightweight, die cast aluminum crankcase.
2. Direct coupled, clamp mounting for easy, compact assembly and disassembly.
3. 360° guided, mechanically actuated plungers offer precise flow with greater efficiency.
4. Spring reinforced oil seal separates crankcase from liquid end and allows easy maintenance of Lo-Pressure and Hi-Pressure Seals.
5. CAT PUMP exclusive, Hi-Pressure Seals offer exceptional performance and unmatched seal life with high temperature liquids.
6. Spring guided inlet valve design offers positive seating and a smooth, consistent flow.
7. Lightweight, heat-resistant RTP liquid end and Regulator offer extended life.
8. Easy access adjusting screw for precise pressure adjustment and servicing.
9. Ultra compact design and threaded back port permits direct mounting on manifold head.
10. RTP heat and chemical resistant body.
11. Stainless Steel piston and seat for multiple cycle durability.
12. Bottom by-pass port redirects liquid if discharge line becomes blocked protecting pump from over pressure.

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

June 2000 4053