The Liberty LL4 Progressive Cavity Pump is an ideal low-costing progressive cavity pump for abrasive and wearing applications like grouting and other abrasive slurry mixtures. The LL4 Series PC Pump is a standard flanged pump design manufactured with cast iron or 316 stainless steel casings and designed in 1, 2, and 3 stages for 75, 150, and 225 psi discharge pressures pumping from 0-24 GPM. (2.02 Gallons per 100 revolutions)

The pump units modular design with simple hardened pinned joint drive assembly ensures ease of use with increased durability. The LL4 Series Progressive Cavity Pump Rotors are typically tool steel or 316 stainless steel with a hard chrome plating. All other wetted parts are either carbon steel or 316 stainless steel. Stators are available in many elastomer materials such as buna, natural rubber, epdm and viton depending upon application.

The standard seal design is a set of packing rope; however, mechanical seal assembly retrofits are readily available. The Liberty LL4 Progressive Cavity Pump parts are direct aftermarket replacements that work with the Moyno™ L4 Series, Tarby™ TL4 Series and Continental™ CL4 Series.*

Please contact Liberty process Equipment Today for more information on the LL4 Liberty Series of Progressive Cavity Pumps.

Contact a Liberty Process representative today for more information about the LL4 Series.

Pump Description

Features

- Modular Design
- Maintenance Free
- Easy Assembly/Disassembly
- Simple Pin-Joint Connection
- Non-Pulsating Low Shear
- NPT Discharge Connection
- Can Be Run In Either Direction

Materials

Rotor: Tool Steel & Stainless Steel, Chrome-Plated
Stator: Buna, Rubber, Viton™, EPDM
Motor: 1/2, 3/4, 1, 1.5, and 2 hp
Inlet: 2-1/2"
Outlet: 2"
Bases: Carbon and Stainless Steel
LIBERTY SERIES - 1LL4
Progressive Cavity Pump
Performance Curves

<table>
<thead>
<tr>
<th>RPM</th>
<th>200</th>
<th>400</th>
<th>600</th>
<th>800</th>
<th>1000</th>
<th>1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPSH REQ'D</td>
<td>.9</td>
<td>1.7</td>
<td>2.6</td>
<td>3.4</td>
<td>4.8</td>
<td>6.7</td>
</tr>
<tr>
<td>MIN. HP</td>
<td>1/3</td>
<td>1/2</td>
<td>1/2</td>
<td>3/4</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

70 Durometer  -  55 Durometer

Data Based on water @70°F

1 Stage Pump
### LIBERTY SERIES - 2LL4

**Progressive Cavity Pump**

**Performance Curves**

<table>
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70 Durometer —— 55 Durometer

Data Based on water @70°F

---

**2 Stage Pump**

7025 Clearbrook Drive Arlington Heights, IL 60005

www.libertyprocess.com

P: 847.640.7867   F: 847.640.7855

2525 Clearbrook Drive Arlington Heights, IL 60005
3 Stage Pump
LIBERTY SERIES - 1LL4
Progressive Cavity Pump
Dimensional Drawings

MIN. REQUIRED TO DISASSEMBLE PUMP

11.37"  13.50"  30.37"

DISCHARGE 2.00"

SUCTION 2.50"

0.94"  5.50"  9.88"

0.56" Dia.

7.62"  15.75"

1 1.37" 30.37"

SUCTION

2.50"

2.75"  2.75"

7.00"

1 Stage Pump

Net weight

= lbs.

ALL DIMN: Inches

85

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2525 Clearbrook Drive Arlington Heights, IL 60005
www.libertyprocess.com
LIBERTY SERIES - 2LL4
Progressive Cavity Pump
Dimensional Drawings

2 Stage Pump

MIN. REQUIRED TO DISASSEMBLE PUMP

11.37”
20.56”
37.44”

SUCTION
2.50”

DISCHARGE
2.00”

8.44”
22.00”

0.56” Dia.
2.75”
7.00”

ALL DIMN: Inches

Net weight
≈ lbs.

ALL DIMN: Inches
91

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Progressive Cavity Pump
Dimensional Drawings

3 Stage Pump

MIN. REQUIRED TO DISASSEMBLE PUMP

11.37"  27.62"  44.50"

DISCHARGE
2.00"

SUCTION
2.50"

Suction
2.50"  2.75"  2.75"

Discharge
2.50"  2.00"  2.00"

MIN. REQUIRED TO DISASSEMBLE PUMP

11.37"  27.62"  44.50"

ALL DIMN: Inches

Net weight
= lbs.

ALL DIMN: Inches

3 Stage Pump

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