FEATURES & BENEFITS

- Vane pump design offers ANSI or DIN flanges, and IEC or NEMA motor mounts to conform to international standards for enhanced application flexibility
- High pressure and high efficiency with thin liquids
- 20 minute inline vane replacement reduces scheduled downtime
- Harder components than other vane pumps extend pump life
  - 62 Rockwell C surface-hardened one-piece, 316 stainless steel casing
- Silicon carbide sleeve bearings
- Chrome oxide shaft coating
### PERFORMANCE

#### COMPARSED TO CENTRIFUGAL PUMPS:
- Higher efficiency for low life-cycle cost
- Higher pressure: 14 Bar (200 PSI)
- Self-priming
- Low-shear flow
- Capacity proportional to speed
- Reversible direction of flow
- Easier-to-pipe, straight-through porting

#### COMPARSED TO OTHER VANE PUMPS:
- Higher pressure: 14 Bar (200 PSI)
- Harder casing: Hardened to 62 Rockwell C to extend pump life
- Harder bushings: Silicon Carbide sleeve bearings, standard
- Harder shaft: Chrome oxide shaft coatings, standard
- PEEK® vanes and push rods: Provides lower dynamic coefficient of friction

### BENEFITS COMPARISON

#### MODELS SPECIFICATIONS

<table>
<thead>
<tr>
<th>Mechanical Seal</th>
<th>Performance</th>
<th>Standard Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>LVP40017</td>
<td>1750</td>
<td>20</td>
</tr>
<tr>
<td>LVP41017</td>
<td>1750</td>
<td>40</td>
</tr>
<tr>
<td>LVP40027</td>
<td>1750</td>
<td>40</td>
</tr>
<tr>
<td>LVP41027</td>
<td>1150</td>
<td>80</td>
</tr>
<tr>
<td>LVP41087</td>
<td>950</td>
<td>100</td>
</tr>
<tr>
<td>LVP41187</td>
<td>520</td>
<td>125</td>
</tr>
<tr>
<td>LVP41237</td>
<td>520</td>
<td>160</td>
</tr>
</tbody>
</table>

Integral pressure relief valve is standard.

### PORTING
- Opposite (180°)
- Flanged (ANSI or DIN)

### SEALING
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal

### MOUNTING
- Foot Mount
- Motor Mount (LVP40017 & LVP 40027 only)

### DRIVES
- Offset Gear Reducer Drive
- Purchased Gear Reducer Drive
- Direct-Mounted Drive
- Motor Mounted Drive (LVP40017 & LVP 40027 only)

### CURVES

![GPM vs. RPM Curves](chart)

### TYPICAL APPLICATIONS
- Acids & Alkalis
- Alcohols & Solvents
- Aqueous Solutions
- Monomers
- Hexane, Pentane
- Refined Fuels
- Reactor vessel ingredient metering
- Vacuum vessel service
- Suction lift applications
- Long suction or discharge line applications

© Copyright 2017 Viking Pump, Inc. All Rights Reserved. Rev1217 | Form No. 445