Series Description

Viking General Purpose Series 32 pumps are extremely well suited for light, medium and intermittent service handling a variety of liquids. The smaller sizes “C”, “F” and “FH” are constructed for heavier duty service. Mechanical seal equipped General Purpose pump models in sizes from “C” thru “HL” shown in this section are available with Underwriters label for handling fuel oil. Model numbers for these pumps must be designated by a suffix -X. “UL” listed models can be equipped with integral relief valve. The additional sizes of unmounted General Purpose pumps are illustrated on the following page. Also for continuous service and for handling viscous liquids, see Viking’s line of heavy duty pumps, Section 630.

Viking’s unique and unusually simple pump construction makes it adaptable to many diversified installations. The pumps possess excellent vacuum characteristics and will operate and prime at suction lifts up to 25 feet, depending upon the vaporization point of volatile liquids. Because of the cushioned action in providing a continuous and steady stream of liquid without splashing, pounding, foaming or churning, the Viking pump is adaptable to an unlimited number of industrial applications.

All sizes of Viking General Purpose pumps have tapped ports except “LQ”, “LL”, “Q”, “M” and “N” sizes. These have flanged ports ready to accept companion flanges.

“K” through “N” sizes are furnished with conventional packing as standard. A cartridge style triple lip sealing option is available for the “K” through “N” sizes, contact the factory for details.

A supporting anti-friction bearing pillow block is recommended for the end of the pump shaft on all V-belt driven units.

Nominal Flow Rates:

<table>
<thead>
<tr>
<th>Pump Size</th>
<th>GPM</th>
<th>m³/h</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>.5</td>
<td>.1</td>
<td>1800</td>
</tr>
<tr>
<td>F</td>
<td>1.5</td>
<td>.3</td>
<td>1800</td>
</tr>
<tr>
<td>FH</td>
<td>3</td>
<td>.7</td>
<td>1800</td>
</tr>
<tr>
<td>G</td>
<td>5</td>
<td>1</td>
<td>1200</td>
</tr>
<tr>
<td>H</td>
<td>10</td>
<td>2</td>
<td>1200</td>
</tr>
<tr>
<td>HL</td>
<td>20</td>
<td>4.5</td>
<td>1200</td>
</tr>
<tr>
<td>K</td>
<td>35</td>
<td>8</td>
<td>420</td>
</tr>
<tr>
<td>KK</td>
<td>50</td>
<td>11</td>
<td>420</td>
</tr>
<tr>
<td>L</td>
<td>90</td>
<td>20</td>
<td>420</td>
</tr>
<tr>
<td>LQ</td>
<td>90</td>
<td>20</td>
<td>420</td>
</tr>
<tr>
<td>LL</td>
<td>140</td>
<td>32</td>
<td>520</td>
</tr>
<tr>
<td>Q</td>
<td>200</td>
<td>45</td>
<td>350</td>
</tr>
<tr>
<td>M</td>
<td>280</td>
<td>64</td>
<td>280</td>
</tr>
<tr>
<td>N</td>
<td>450</td>
<td>102</td>
<td>280</td>
</tr>
</tbody>
</table>
Key Features and Benefits:

- **Relief Valve on Casing or Head**
  - The integral pressure relief valve on casing or head permits by-passing of liquid from discharge back to suction side of pump. Reverse valve when reversing pump rotation on large pumps. Small pumps with relief valve built with right hand suction as standard.

- **Steam Jacketed Head**
  - Jacketed head or plate permits temperature control of the liquid being pumped. Jacketed plate available on “G” through “LL” size pumps. Jacketed head available on “Q” through “N” sizes. Relief valve not available with jacketed head or plate. For complete jacketed pumps, see Section 430.

- **Upright, Opposite & Right Angle Ports**
  - “C”, “F” and “FH” size pumps furnished with upright port casings: “G” size pump with opposite port casing and “H” through “N” size pumps with right angle port casings. Right hand port determined by location of side port when facing pump from shaft end.

- **Mechanical Seal**
  - “G”, “H” and “HL” sizes illustrated. All General Purpose pumps are available with packed stuffing boxes. Mechanical seals are available on “C” through “HL” size pumps as standard. The seal is a rotary type packaged unit that is simple and self-adjusting. It works WITH rather than against pressure.

Model Number Key:

```
<table>
<thead>
<tr>
<th>Size</th>
<th>Basic Series Configuration</th>
<th>Drive Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Blank = Packing</td>
<td>D = Direct Connected</td>
</tr>
<tr>
<td>F</td>
<td></td>
<td>B = Bracket Mounted</td>
</tr>
<tr>
<td>FH</td>
<td></td>
<td>R = Reducer Unit</td>
</tr>
<tr>
<td>G</td>
<td>4 = Mechanical Seal</td>
<td>V = V-Belt Drive</td>
</tr>
<tr>
<td>H</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

Drive Types:

- D Drive
- B Drive
- R Drive
- V Drive
### Materials of Construction - Series 32 & 432

<table>
<thead>
<tr>
<th>Standard Component</th>
<th>Standard Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing</td>
<td>Iron</td>
</tr>
<tr>
<td>G, H, HL</td>
<td>Iron</td>
</tr>
<tr>
<td>K, KK, L, LQ, LL, Q, M, N</td>
<td>Iron</td>
</tr>
</tbody>
</table>

**Casing**
- Iron

**Head**
- Iron

**Rotor**
- Steel

**Rotor Shaft**
- Steel

**Idler**
- Powdered Metal

**Idler Pin**
- Nitrilloy

**Bushings**
- Series 32 Packed: Carbon Graphite
- Series 432 Mechanical Seal: Carbon Graphite

**Internal Relief Valve**
- Carbon Graphite

**Materials of Construction - Series 32 & 432**

1. Buna N elastomer used in Mechanical Seal of 432 Series pumps.
2. Valve integral with pump casing. Right hand suction only.
3. Mechanical seal seat has bronze bushing.

### Specifications - Unmounted Pumps

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Nominal Pump Rating</th>
<th>Motor HP Required at Rated Speed (Pumping 100 SSU Liquid)</th>
<th>Maximum Recommended Discharge Pressure</th>
<th>Maximum Recommended Temperature for Cataloged Pump</th>
<th>Steel Fitted Construction Recommended Above This Viscosity</th>
<th>Maximum Hydrostatic Pressure</th>
<th>Approximate Shipping Weight With Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>C32</td>
<td>1800</td>
<td>0.11 (1800)</td>
<td>100 SSU</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>5</td>
</tr>
<tr>
<td>F32</td>
<td>1800</td>
<td>0.34 (1800)</td>
<td>100 SSU</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>FH32</td>
<td>1800</td>
<td>0.88 (1800)</td>
<td>100 SSU</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>G32</td>
<td>1200</td>
<td>1.1 (1200)</td>
<td>50</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>H32</td>
<td>1200</td>
<td>2.3 (1200)</td>
<td>50</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>HL32</td>
<td>1200</td>
<td>4.5 (1200)</td>
<td>100 SSU</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>K32</td>
<td>420</td>
<td>1.1 (420)</td>
<td>50</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>KK32</td>
<td>420</td>
<td>2.25 (420)</td>
<td>50</td>
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<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>L32</td>
<td>420</td>
<td>3.0 (420)</td>
<td>50</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>LQ32</td>
<td>420</td>
<td>5 (420)</td>
<td>50</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>LL32</td>
<td>520</td>
<td>7.5 (520)</td>
<td>50</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
<tr>
<td>Q32</td>
<td>520</td>
<td>10.5 (520)</td>
<td>50</td>
<td>150 PSI</td>
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<td>M32</td>
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<td>22.5 (520)</td>
<td>50</td>
<td>150 PSI</td>
<td>-</td>
<td>750</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Mechanical Seal pumps not recommended on applications with viscosities above 15,000 SSU (3,300 cSt).
2. Ports are suitable for use with 125# ANSI cast iron or 150# ANSI steel companion flanges or flanged fittings. All others tapped for standard pipe.
3. With extra clearance, pumps can be used to 500 PSI (34 BAR) on intermittent duty.
4. With special construction, temperature to 500°F. can be handled with seal pumps and to 650°F. with packed pumps. Consult factory.
5. Not available in steel fitted construction.
6. Right hand port only.
**Sections and Page Numbers**

Section: 310  
Page: 310.4  
Issue: J

**Title**

**VIKING GENERAL PURPOSE**  
**INTERNAL GEAR PUMPS**  
**SERIES 32 & 432**

---

**Dimensions C - F - FH 32 & 432 (Unmounted Pumps)**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PACKED SEAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A B C G H</td>
<td>L M N W</td>
</tr>
<tr>
<td>C32 C432</td>
<td>¼ 1⅛ ¾ 4⅞ 1⅞</td>
</tr>
<tr>
<td>F32 F432</td>
<td>½ 2 ¾ 5 ⅞</td>
</tr>
<tr>
<td>FH32 FH432</td>
<td>¼ 2 ¾ 5⅜ ⅞</td>
</tr>
</tbody>
</table>

---

**Dimensions G 32 & 432 (Unmounted Pumps)**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PACKED SEAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>G32 G432</td>
<td>G432</td>
</tr>
</tbody>
</table>

---

© Minimum dimension for repacking. Assembled dimension on seal pumps 3⅛".
Dimensions H - HL 32 & 432 (Unmounted Pumps)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>N</th>
<th>O</th>
<th>S</th>
<th>U</th>
<th>V</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>H32</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>2.88</td>
<td>2.75</td>
<td>1.63</td>
<td>1.31</td>
<td>0.88</td>
<td>0.34</td>
<td>1.75</td>
<td>5.75</td>
<td>0.88</td>
<td>0.31</td>
<td>11.38</td>
<td>0.75</td>
<td>0.19</td>
<td>0.09</td>
<td>2.88</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>73.2</td>
<td>69.9</td>
<td>41.4</td>
<td>33.3</td>
<td>22.4</td>
<td>8.6</td>
<td>44.5</td>
<td>146.1</td>
<td>22.4</td>
<td>7.9</td>
<td>289.1</td>
<td>19.1</td>
<td>4.8</td>
<td>2.3</td>
<td>73.2</td>
</tr>
<tr>
<td>HL32</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>3.00</td>
<td>2.75</td>
<td>1.63</td>
<td>1.31</td>
<td>0.88</td>
<td>0.34</td>
<td>1.75</td>
<td>6.00</td>
<td>1.19</td>
<td>0.31</td>
<td>11.38</td>
<td>0.75</td>
<td>0.19</td>
<td>0.09</td>
<td>2.88</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>76.2</td>
<td>69.9</td>
<td>41.4</td>
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<td>22.4</td>
<td>8.6</td>
<td>44.5</td>
<td>152.4</td>
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<td>7.9</td>
<td>289.1</td>
<td>19.1</td>
<td>4.8</td>
<td>2.3</td>
<td>73.2</td>
</tr>
</tbody>
</table>

① Minimum dimension for repacking. Assembled dimension on seal pumps: 3⅝ for Model H432, 4⅜ for Model HL432.

Dimensions K - KK - L - LQ 32 (Unmounted Pumps)

| MODEL NO. | A | B | C | D | E | F | H | J | K | N | O | ② | R | S | U | V | W |
|-----------|---|---|---|---|---|---|---|---|---|---|---|    |   |---|---|---|---|
| K32       | 1½| 4¼| 8 | 4%| 2½| 2¼| ⅛ | ⅛ | 3 | 1¼| ⅛ | 7¼ | 18¼| 1¼ | ⅛ x ⅛| 5¼ |
| KK32      | 2 | 4¼| 8 | 4%| 2½| 2¼| ⅛ | ⅛ | 3 | 1¼| ⅛ | 7¼ | 18¼| 1¼ | ⅛ x ⅛| 5¼ |
| L32       | 2 | 6¼| 10¼| 6 | 2%| 3 | 1 | ⅛ | 3 | 1¼| ⅛ | 9¼ | 21¼| 1¼ | ⅛ x ⅛| 5¼ |
| LQ32      | ②2½| 7%| 10¼| 6 | 2½| 3 | 1 | ⅛ | 3 | 1¼| ⅛ | 9¼ | 21¼| 1¼ | ⅛ x ⅛| 5¼ |

① Ports are suitable for use with 125# ANSI cast iron or 150# ANSI steel companion flanges or flanged fittings. All others tapped for standard pipe.
② Minimum dimension for repacking.
Dimensions LL - Q - M - N 32 (Unmounted Pumps)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>N</th>
<th>O</th>
<th>R</th>
<th>S</th>
<th>U</th>
<th>V</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL32</td>
<td>3</td>
<td>7</td>
<td>10</td>
<td>6</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>½</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>½</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Q32</td>
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<td>1</td>
<td>5</td>
</tr>
<tr>
<td>M32</td>
<td>4</td>
<td>9</td>
<td>17</td>
<td>9</td>
<td>5</td>
<td>6</td>
<td>1</td>
<td>5</td>
<td>4</td>
<td>¾</td>
<td>1</td>
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<td>1</td>
<td>6</td>
</tr>
<tr>
<td>N32</td>
<td>5</td>
<td>9</td>
<td>17</td>
<td>9</td>
<td>5</td>
<td>6</td>
<td>1</td>
<td>5</td>
<td>5</td>
<td>⅛</td>
<td>1</td>
<td>7</td>
<td>5</td>
<td>¼</td>
<td>1</td>
<td>7</td>
</tr>
</tbody>
</table>

① Ports are suitable for use with 125# ANSI cast iron or 150# ANSI steel companion flanges or flanged fittings.
② Minimum dimension for repacking.

Dimensions C - F - FH 32 & 432 (D DRIVE)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACKED</td>
<td>SEAL</td>
<td>Pounds</td>
<td>KG</td>
<td></td>
</tr>
<tr>
<td>C32D</td>
<td>C432D</td>
<td>26</td>
<td>11.8</td>
<td></td>
</tr>
<tr>
<td>F32D</td>
<td>F432D</td>
<td>27</td>
<td>12.3</td>
<td></td>
</tr>
<tr>
<td>FH32D</td>
<td>FH432D</td>
<td>29</td>
<td>13.2</td>
<td></td>
</tr>
</tbody>
</table>

① Centerheight is 3” with 48 frame motor. Centerheight is 3⅝” with 56 frame motor.
Sections

**Dimensions G - H - HL 32 & 432 (D DRIVE)**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>L₁</th>
<th>M</th>
<th>P</th>
<th>S</th>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACKED</td>
<td>SEAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G32D</td>
<td>G432D</td>
<td>1</td>
<td>2½</td>
<td>3½</td>
<td>1½</td>
<td>20½</td>
<td>¾</td>
<td>¾</td>
<td>8½</td>
<td>⅜</td>
<td>3¼</td>
<td>½</td>
<td>4½</td>
<td>45</td>
</tr>
<tr>
<td>H32D</td>
<td>H432D</td>
<td>1</td>
<td>2½</td>
<td>3½</td>
<td>1½</td>
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<td>¾</td>
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<td>8½</td>
<td>⅜</td>
<td>3¼</td>
<td>½</td>
<td>4½</td>
<td>70</td>
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<tr>
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<td>HL432D</td>
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<td>3</td>
<td>3½</td>
<td>1½</td>
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<td>8½</td>
<td>⅜</td>
<td>3¼</td>
<td>½</td>
<td>4½</td>
<td>75</td>
</tr>
<tr>
<td>G32D</td>
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<td>4½</td>
<td>2½</td>
<td>25</td>
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<td>9</td>
<td>½</td>
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<td>4½</td>
<td>8½</td>
<td>45</td>
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<td>H432D</td>
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<td>4½</td>
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<td>1½</td>
<td>9</td>
<td>½</td>
<td>4½</td>
<td>4½</td>
<td>8½</td>
<td>70</td>
</tr>
<tr>
<td>HL32D</td>
<td>HL432D</td>
<td>1½</td>
<td>3</td>
<td>4½</td>
<td>2½</td>
<td>25</td>
<td>1</td>
<td>1½</td>
<td>9</td>
<td>½</td>
<td>4½</td>
<td>4½</td>
<td>8½</td>
<td>75</td>
</tr>
</tbody>
</table>

① All "G" pumps are equipped with opposite ports with openings ⅜" above shaft center line. See drawing page 310.9.
② For motor frames 56, 143T and 145T.
③ For motor frames 182, 182T, 184 and 184T.
Frame 48 (3" center line), smaller base required.
Frame 213 on up, larger base required.

**Dimensions G 32 & 432 (B DRIVE)**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACKED</td>
<td>SEAL</td>
</tr>
<tr>
<td>G32B</td>
<td>G432B</td>
</tr>
</tbody>
</table>

① Minimum dimension for repacking. Assembled dimension for seal pump 3½. 

VIKING PUMP • A Unit of IDEX Corporation • Cedar Falls, IA ©2016
### Dimensions H - HL 32 & 432 (B DRIVE)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>S</th>
<th>T</th>
<th>U</th>
<th>V</th>
<th>W</th>
<th>PACKED SEAL</th>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H32B</td>
<td>1</td>
<td>2%</td>
<td>14%</td>
<td>2%</td>
<td>2%</td>
<td>3%</td>
<td>2%</td>
<td>4%</td>
<td>3%</td>
<td>1%</td>
<td>1%</td>
<td>5%</td>
<td>4%</td>
<td>½</td>
<td>½</td>
<td>½</td>
<td>¼</td>
<td>¼</td>
<td>¼</td>
<td>¼  x ¼</td>
<td>2%</td>
</tr>
<tr>
<td>HL32B</td>
<td>1½</td>
<td>3</td>
<td>14</td>
<td>2%</td>
<td>3%</td>
<td>3%</td>
<td>4%</td>
<td>3%</td>
<td>1%</td>
<td>6</td>
<td>4%</td>
<td>1%</td>
<td>½</td>
<td>¾</td>
<td>¼</td>
<td>¾</td>
<td>¼</td>
<td>¾</td>
<td>¾  x ¾</td>
<td>2%</td>
<td>28 12.7</td>
</tr>
</tbody>
</table>

① Minimum dimension for repacking. Assembled dimension on seal pumps: 3½" – for Model H432B, 4½" – for Model HL432B.

### Dimensions G - H - HL 32 & 432 (R DRIVE, A REDUCER)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>L</th>
<th>M</th>
<th>U</th>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td>① G32R</td>
<td>1</td>
<td>2%</td>
<td>%</td>
<td>3%</td>
<td>%</td>
<td>65 30</td>
</tr>
<tr>
<td>H32R</td>
<td>1</td>
<td>2%</td>
<td>%</td>
<td>3%</td>
<td>%</td>
<td>70 32</td>
</tr>
<tr>
<td>HL32R</td>
<td>1½</td>
<td>3</td>
<td>%</td>
<td>4%</td>
<td>%</td>
<td>75 34</td>
</tr>
</tbody>
</table>

① All "G" pumps are equipped with opposite ports with openings ½" above shaft center line.
Dimensions C - F - FH 32 & 432 (V DRIVE)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>L</th>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pounds</td>
</tr>
<tr>
<td>C32V</td>
<td>⅛</td>
<td>1</td>
<td>⅛</td>
<td>4⅝</td>
<td>35</td>
</tr>
<tr>
<td>F32V</td>
<td>⅝</td>
<td>2</td>
<td>⅛</td>
<td>4⅝</td>
<td>40</td>
</tr>
<tr>
<td>FH32V</td>
<td>⅝</td>
<td>2</td>
<td>⅛</td>
<td>4⅝</td>
<td>45</td>
</tr>
</tbody>
</table>

Dimensions G - H - HL 32 & 432 (V DRIVE)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
<th>F</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pounds</td>
</tr>
<tr>
<td>☀ G32V</td>
<td>1</td>
<td>☀ 2⅝</td>
<td>8⅜</td>
<td>18⅛</td>
<td>10⅝</td>
<td>⅝</td>
<td>⅝</td>
<td>1⅛</td>
<td>3⅛</td>
<td>2⅝</td>
<td>1⅛</td>
<td>65</td>
</tr>
<tr>
<td>H32V</td>
<td>1</td>
<td>2⅝</td>
<td>8⅛</td>
<td>18⅛</td>
<td>10⅝</td>
<td>⅝</td>
<td>⅝</td>
<td>1⅛</td>
<td>3⅛</td>
<td>2⅝</td>
<td>1⅛</td>
<td>70</td>
</tr>
<tr>
<td>HL32V</td>
<td>1⅛</td>
<td>3</td>
<td>8⅜</td>
<td>18⅛</td>
<td>10⅝</td>
<td>⅝</td>
<td>⅝</td>
<td>2⅝</td>
<td>4⅛</td>
<td>2⅝</td>
<td>1⅛</td>
<td>75</td>
</tr>
</tbody>
</table>

① All "G" pumps are equipped with opposite ports with openings ⅝" above shaft center line. See drawing page 310.9.
Base shown for motor frame 56 and smaller.
Larger Base always required with motor frames 143T, 145T, 162, 182T, 184, 184T.
### Dimensions K - KK - L - LQ 32 (V DRIVE)

- **Ports are suitable for use with 125# ANSI cast iron or 150# ANSI steel companion flanges or flanged fittings. All others tapped for standard pipe.**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>Pounds</th>
<th>KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>K32V</td>
<td>1½</td>
<td>4%</td>
<td>13½%</td>
<td>3¼</td>
<td>17</td>
<td>28¼</td>
<td>1</td>
<td>½</td>
<td>2⅓%</td>
<td>6½</td>
<td>4%</td>
<td>210</td>
<td>95</td>
</tr>
<tr>
<td>KK32V</td>
<td>2</td>
<td>4%</td>
<td>13½%</td>
<td>3¼</td>
<td>17</td>
<td>28¼</td>
<td>1</td>
<td>½</td>
<td>2⅓%</td>
<td>6½</td>
<td>4%</td>
<td>215</td>
<td>98</td>
</tr>
<tr>
<td>L32V</td>
<td>2</td>
<td>6½</td>
<td>15½%</td>
<td>3½</td>
<td>18½</td>
<td>31</td>
<td>1</td>
<td>½</td>
<td>1½</td>
<td>7¼</td>
<td>6½</td>
<td>280</td>
<td>127</td>
</tr>
<tr>
<td>LQ32V</td>
<td>2½</td>
<td>7½%</td>
<td>15½%</td>
<td>3½</td>
<td>18½</td>
<td>31</td>
<td>1</td>
<td>½</td>
<td>1½</td>
<td>7¼</td>
<td>6½</td>
<td>290</td>
<td>132</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pounds</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>210</td>
</tr>
<tr>
<td>215</td>
</tr>
<tr>
<td>280</td>
</tr>
<tr>
<td>290</td>
</tr>
</tbody>
</table>

### Dimensions LL - Q - M - N 32 (V DRIVE)

- **Ports are suitable for use with 125# ANSI cast iron or 150# ANSI steel companion flanges or flanged fittings.**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>①</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>Approximate Shipping Weight With Valve (Less Power)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL 32V</td>
<td>3</td>
<td>7¼%</td>
<td>15½</td>
<td>3½</td>
<td>18½</td>
<td>31</td>
<td>1</td>
<td>½</td>
<td>1½</td>
<td>7¼</td>
<td>6½</td>
<td>315</td>
<td>143</td>
</tr>
<tr>
<td>Q32V</td>
<td>3</td>
<td>7¼</td>
<td>①</td>
<td>13½</td>
<td>6</td>
<td>27</td>
<td>49</td>
<td>1½</td>
<td>⅞%</td>
<td>2¾</td>
<td>8%</td>
<td>750</td>
<td>341</td>
</tr>
<tr>
<td>M32V</td>
<td>4</td>
<td>9%</td>
<td>①</td>
<td>15½</td>
<td>6</td>
<td>27</td>
<td>49</td>
<td>1½</td>
<td>⅞%</td>
<td>3¾</td>
<td>12½</td>
<td>8%</td>
<td>1100</td>
</tr>
<tr>
<td>N32V</td>
<td>5</td>
<td>9%</td>
<td>20%</td>
<td>6</td>
<td>27</td>
<td>49</td>
<td>1½</td>
<td>⅞%</td>
<td>3¾</td>
<td>13</td>
<td>9%</td>
<td>1300</td>
<td>590</td>
</tr>
</tbody>
</table>

① Dimension “C” (13¼) shown is for 19” or 25” O.D. sheave (lesser reductions). Dimension “C” is 20½ when 33.5” O.D. sheave is used (maximum reduction).
② Dimension “C” (15%) shown is for 19” or 25” O.D. sheave (lesser reductions). Dimension “C” is 22” when 33.5” O.D. sheave is used (maximum reduction).
Performance Curve Notes

Printed performance curves are not available.

Performance curves can be electronically generated with the Viking Pump Selector Program. This program can be located on www.vikingpump.com.

NPSH\textsubscript{r} data is not available on the pump selector.

**NPSH\textsubscript{r} - FEED OF LIQUID (SP. GR. 1.0), Viscosities to 750 SSU**

\(NPSH\textsubscript{A}\) (Net Positive Suction Head Available) must be greater than the \(NPSH\textsubscript{r}\) (Net Positive Suction Head Required) given in the above table.

**VISCOSITY** - Above chart applies to viscosities up thru 750 SSU. Consult factory or Viking representative for viscosities above 750 SSU.

For liquids other than water, divide by specific gravity.

<table>
<thead>
<tr>
<th>PUMP SIZE</th>
<th>PUMPS SPEED, RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100</td>
</tr>
<tr>
<td>C</td>
<td>-</td>
</tr>
<tr>
<td>F, FH</td>
<td>-</td>
</tr>
<tr>
<td>G</td>
<td>-</td>
</tr>
<tr>
<td>H, HL</td>
<td>-</td>
</tr>
<tr>
<td>K, KK</td>
<td>-</td>
</tr>
<tr>
<td>L, LQ, LL</td>
<td>1.7</td>
</tr>
<tr>
<td>Q</td>
<td>1.9</td>
</tr>
<tr>
<td>M</td>
<td>2.1</td>
</tr>
<tr>
<td>N</td>
<td>2.1</td>
</tr>
</tbody>
</table>

*Catalog Speed Rating*

*Limit for most models. Some models exceed this limit. See Viking Pump catalog for details.*