Series 332 – Heavy Duty Pumps

The rugged, yet simple, design of the VICAN 332 Series pumps assures long life and trouble free operation in normal-duty installations and outstanding performance when handling liquids at greater pressures. This series pump has been developed for high capacity and heavy-duty service for a wide range of pump applications. They are designed to work equally well in both directions and possess excellent vacuum developing characteristics. This series of pumps provides a continuous and steady stream of liquid without foaming or churning. These pumps can be supplied with jacketed features for steam or hot oil heating. A variety of materials of construction are available to suit application. Also suited for gear reduction, V-belt and timing belt arrangements without additional shaft support.

**Capacities:** to 3,785 l/min (1000 USGPM)\(^{(5)}\)

**Differential Pressures:** to 1380 kPa (200 PSI)

**Temperatures:** to 343°C (650°F)

**Viscosities:** to 440,000 cSt (2,000,000 SSU)

### Construction Features:

**Thrust Bearing** – Heavy duty type, grease lubricated oversized thrust bearing to withstand excessive thrust and radial loads. Bearing is not exposed to pumped liquid.

**Rotor Adjustment** – Allows easy adjustment of end clearance, assuring peak pumping performance without dismantling pump.

**Relief Valve** – (Std) To protect against excessive pressures, pumps are supplied with integral head mounted relief valves.

**Jacketed Features** – (Optional) Jacketed head, relief valve, rotor bearing sleeve, and casing available (See Series 260 pumps)

### Standard Construction

<table>
<thead>
<tr>
<th>Casing, Head, Bracket</th>
<th>Rotor (^{(7)})</th>
<th>Idler</th>
<th>Shaft</th>
<th>Idler Pin</th>
<th>Idler and Bracket Bushing (^{(8)})</th>
<th>Shaft Seal (^{(2),(3)})</th>
<th>Integral Relief Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>Ductalloy</td>
<td>Iron</td>
<td>Steel</td>
<td>Steel</td>
<td>Bronze</td>
<td>Packed</td>
<td>All Iron</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Port Size (Inch) (^{(4)})</th>
<th>Nominal Pump Rating At 345 kPa (50 PSI) 21 cSt (100 SSU)</th>
<th>Motor Power Required Based on Rated Speed 345 kPa (50 PSI) 21 cSt (100 SSU) 690 kPa (100 PSI)</th>
<th>Maximum Hydro-Static Pressure</th>
<th>Max. Rec. Discharge Pressure Over 21 cSt (100 SSU)</th>
<th>Maximum Recommended Temperature (1)</th>
<th>Approx. Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q-332</td>
<td>4&quot; Flanged</td>
<td>310 1173 520 17 12.7 27 20.1 400 2758 200 1379 450 232 225 107 410 186</td>
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<tr>
<td>M-332</td>
<td>4&quot; Flanged</td>
<td>400 1514 420 22 16.4 36 26.9 400 2758 200 1379 450 232 225 107 490 222</td>
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<tr>
<td>N-332</td>
<td>5&quot; Flanged</td>
<td>590 2233 350 30 22.4 50 37.3 400 2758 125 862 450 232 225 107 850 386</td>
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<tr>
<td>R-332</td>
<td>6&quot; Flanged</td>
<td>700 2650 190 36 26.9 58 43.3 400 2758 125 862 450 232 225 107 1400 636</td>
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</tbody>
</table>

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1. For higher temperatures consult factory for recommendations.
2. Standard Packing is C-1065 Graphite/Teflon. C-1045 Food Grade Teflon and 1625GF High Temp Graphite are available as options.
3. Buna-N elastomer used in mechanical seal. Viton or Teflon elastomers available upon request.
4. Ports are suitable for use with 125# ANSI iron or 150# ANSI steel companion flanges or flanged fittings.
5. Other bushings available to suit application.
6. R-332 capacity to 2,650 l/min (700 USGPM) on continuous duty and up to 3,785 l/min (1000 USGPM) on intermittent duty (Consult Factory for operation in the intermittent range).
7. Standard Rotor on LM-124 is Ductalloy.
8. Standard Bushings on LM-124 are Carbon Graphite.