CLARK SOLUTIONS

Model 00 Rotary Gear Pump

Pressure to 300 PSI, Flow to 0.5 GPM, Drive Speed to 1800 RPM

DESCRIPTION

Model 00 pump is ideally suited for low volume applications such as pressure lubrication, hydraulic service, fuel supply, and general liquid transfer.

The pumps are available in cast iron and ductile iron. They are designed to operate at speeds to 1800 RPM, pressures to 300 PSI, and flow rates to 0.5 GPM. The standard seal is a lip seal and lubrication of the plain bearings is accomplished by the circulation of the pumped liquid. All models are available with foot or flange mounting.

These pumps have an outstanding record for reliable performance and long life. The machining of the gears, shafts and housing faces are held to exacting tolerances (within 0.0005") resulting in a pump with better lift, reduced slippage and longer service life.

Standard pumps operate to 250°F and, with modifications, to 500°F.

SPECIFICATIONS

GENERAL

Design: Drive speeds to 1800 RPM; discharge pressures to 300 PSI; flow rates to 0.5 GPM; foot or flange mounted
Material: Cast Iron casings with precision machined, heat treated gears and case hardened shafts. Pumps are also available in Ductile Iron.
Gears: Helical gears
Bearings: Plain bearings
Seal: Lip Seal
Lubrication: Self-lubricating using the pumped liquid.
Rotation: Clockwise or counter-clockwise, specify at time of order.
Liquid Viscosities: 32 SSU to 1750 SSU. Clean liquids having good lubricating quality. Adaptable for handling liquids of higher or lower viscosities.

FEATURES

• PRECISION GROUND JOINTS

No Gaskets- Perhaps the biggest advantage to these pumps. As gaskets are not used, original tolerances are maintained for consistent performance and the time once lost in halting operations to replace a worn gasket is saved.

• SEALS

Lip seal provides an ample safeguard against liquid leakage and the entrance of air.

Suction Lift: Up to 28” Hg / 31 feet depending on the type of liquid being pumped.
Drive Options: A-Drive (pump connected to C-face motor with adapter bracket and coupling). D-Drive (pump coupled to motor mounted on baseplate.)
Accessories: Repair Kits, Gear Kits, and Seal Kits.

PUMP DIMENSIONS (INCHES)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>G</th>
<th>J</th>
<th>K</th>
<th>M</th>
<th>O</th>
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<tr>
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<td>1.888</td>
<td>3.00</td>
<td>0.41</td>
<td>4.19</td>
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<td>0.375</td>
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FLOW CURVES

32 SSU LIQUID

1725 RPM

1140 RPM

300 SSU LIQUID

1725 RPM

1140 RPM

1000 SSU LIQUID

1725 RPM

1140 RPM

1750 SSU LIQUID

1725 RPM

1140 RPM

OPERATING CHARACTERISTICS
Delivery and horsepower are based on liquid viscosity of 300 SSU at speed and pressures shown.

<table>
<thead>
<tr>
<th>Model</th>
<th>Gallons per Revolution</th>
<th>Slip GPM/PSI</th>
<th>Drive Speed RPM</th>
<th>0 PSI</th>
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<th>100 PSI</th>
<th>200 PSI</th>
<th>300 PSI</th>
<th>GPM</th>
<th>HP</th>
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<td>0.238</td>
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PUMP DIMENSIONS (INCHES) DIRECT COUPLED TO STANDARD C-FACE MOTOR (A-DRIVE)
00 Series pumps are available direct coupled to a NEMA C-Face foot mounted motor. This assembly, referred to as an A-Drive, ensures accurate alignment and requires less space and is less costly than a pump and motor mounted on a baseplate.

ORDERING INFORMATION
ORDER PUMP ONLY 713-A-B-C

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