## Positive Displacement Rotary Gear Pumps

### RATING

<table>
<thead>
<tr>
<th>Model</th>
<th>Medium</th>
<th>Heavy</th>
<th>Extreme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Capacity GPM</td>
<td>38</td>
<td>107</td>
<td>146</td>
</tr>
<tr>
<td>(LPM)</td>
<td>(144)</td>
<td>(400)</td>
<td>(552)</td>
</tr>
<tr>
<td>Max Pressure PSI</td>
<td>200</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>(Bar)</td>
<td>(13.8)</td>
<td>(13.8)</td>
<td>(27.6)</td>
</tr>
<tr>
<td>Max Temperature °F</td>
<td>-40° to 100°</td>
<td>-40° to 350°</td>
<td>-40° to 180°</td>
</tr>
<tr>
<td>(°C)</td>
<td>(-40° to 49°)</td>
<td>(-40° to 177°)</td>
<td>(-40° to 82°)</td>
</tr>
<tr>
<td>Temperature °F</td>
<td>-60° to 675°</td>
<td>-60° to 500°</td>
<td>-60° to 675°</td>
</tr>
<tr>
<td>(°C)</td>
<td>(-51° to 357°)</td>
<td>(-51° to 260°)</td>
<td>(-51° to 357°)</td>
</tr>
</tbody>
</table>

### STD/ASMEO OPTIONS:

- **Rotor & Idler**
  - Ductile Iron
  - Austempered Ductile Iron
- **Housing Ports**
  - 180° Tapped
  - 90° Tapped/FLG
- **Bushings**
  - TBS (STD)
- **Shaft**
  - Steel
- **Shaft Sealing**
  - Mechanical Seal: Viton

### Engineered for Unparalleled Performance.

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[The Gorman-Rupp Company](http://www.gormanrupp.com)
The Gorman-Rupp G Series™ line of positive displacement rotary gear pumps is designed to provide performance no other gear pumps can match.

Available in Medium Duty, Heavy Duty and Extreme Duty models - in cast iron, cast steel and stainless steel. G Series pumps are versatile enough to handle virtually any pumping application and liquid type. They come in a variety of drive arrangements, including close-coupled, flex-coupled, gear reducer and v-belt drive.

G Series pumps are manufactured with patented features that enable them to perform better and last longer on countless applications, providing quality and reliability that makes the G Series the premier gear pump in the industry.

**Longer Lasting.**
All Gorman-Rupp G Series pumps are designed with numerous features that you’ll find on no other gear pumps, allowing them to outlast and outperform the competition.

1. **Optimum Bushing Location**
   Patented, replaceable rotor skirt bushing provides high pressure operation while reducing overhung loads. On both packed box and mechanical seal heavy duty models, the throttle bushing located directly behind the rotor provides additional shaft support and seal cavity throttling.

2. **High Strength Computer Designed Gear Teeth**
   Computer designed gear teeth profile provides quiet, smooth pumping flow. Standard high strength gear material eliminates the need for special steel fitting.

3. **Unique Idler Pin Lubrication System**
   Unique internal pressure lubricated idler pin reduces wear by continuously cooling and lubricating the idler pin and bushing.

4. **Internal Seal Vent**
   Seal cavity venting provides continuous flow of liquid through seal cavity, ensuring cooling. Maintains seal cavity at low pressure reducing seal face load and increasing seal life.

5. **Deep End Feed Area**
   Deep end feed area offers improved performance under low inlet pressure conditions and/or high viscosity liquids.

6. **Easy Motor Center Height Adjustment**
   Foot brackets are centrally located under pump ports, providing better pump and piping support. Multiple center line height enables simple and inexpensive bases.

7. **No-Leak Pressure Relief Valve**
   O-ring design on relief valve allows for adjustment during operation without leakage.

8. **Unique Back Pull-Out Design**
   Unique back pull-out design allows service and maintenance without disconnecting pump housing from piping.

9. **Multiple Port Positioning**
   Interchangeable 90° or 180° housings with multiple port sizes on most models. Eight different port positions in 45° increments make installation faster and easier.
Gorman-Rupp G Series Medium Duty pumps are designed to handle clean liquid applications usually reserved for more expensive, “heavy duty” pumps.

Available in two styles — the compact, close coupled GMC and the stub shaft, flex coupled GMS — Medium Duty G Series pumps offer the quality features found on all G Series pumps, as well as performance and adaptability features that are unique to our medium duty line.

**Typical Medium Duty Applications**
- Hydrocarbons, Petrochemicals and Similar:
  - Oils
  - Fats
  - Fuels
- Viscous Liquids and Polymers:
  - Grease
  - Asphalt
- Thermosensitive Liquids:
  - Resins
  - Tar
- Acids:
  - Acetic
  - Phosphoric Solvents:
  - Ketones
  - Acetone
- Salts and Caustics:
  - Soda Ash
  - Viscose
- Papermill Liquids:
  - Black Liquor
  - Kaolin
- Heat Transfer Liquids:
  - MobilTherm
  - DowTherm
- Food Products:
  - Chocolate
  - Glucose
  - Vegetable Oil
  - Syrups

**Compact, C-Face Mounted GMC**
For high performance in a small package, the GMC can be close coupled to motors as large as the NEMA 215TC frame.
Designed to survive the severe challenge of liquids containing abrasives, the Gorman-Rupp G Series Extreme Duty pump combines proven gear pump technology with state-of-the-art wear-resistance processes, making it the world's toughest, longest-lasting gear pump.

Available in cast iron with capacities to 146 GPM, pressures to 200 PSI and viscosities to 250,000 SSU, the extreme duty pump offers many of the performance features found on all G Series pumps, as well as innovative and unique abrasion-resistant features that provide the best service life possible under many extreme wear applications.

**Typical Extreme Duty Applications**
- Abrasives: Paint, Enamels, Printing Ink, Titanium Dioxide, Iron Oxide, Zinc Oxide, Diatomaceous Earth, Paper Coatings, Pitch, Fish Solubles, Barium Sulfate, Wax, Waste Oils

**MODEL GHA**

<table>
<thead>
<tr>
<th>OPERATING RANGE</th>
<th>GHA</th>
</tr>
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<tbody>
<tr>
<td>Max Capacity GPM</td>
<td>146</td>
</tr>
<tr>
<td>Max Viscosity SSU</td>
<td>250,000</td>
</tr>
<tr>
<td>Temperature ºF</td>
<td>60º to 500º</td>
</tr>
<tr>
<td>Standard Construction</td>
<td>Exterior Gray Iron</td>
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