Self Priming Centrifugal Pump
Models 03H1-GL, 03H1-GR, 03H3-GL and 03H3-GR
Size 3” x 3”

PUMP SPECIFICATIONS
Size: 3” x 3” (76 mm x 76 mm) NPT - Female.
Casing: (03H1) Aluminum Alloy 356-T6.
Maximum Operating Pressure 176 psi (1214 kPa).*
Enclosed Type, Five Vane Impeller: Aluminum Alloy 356-T6
Handles 7/16” (11.1 mm) Diameter Spherical Solids.
Pinion Shaft: Alloy Steel 4150.
Shaft Sleeve: Alloy Steel 4130.
Replaceable Wear Ring: Copper Alloy C93200.
Seal Plate: (03H1) Gray Iron 30.
Seal Guard: Copper Alloy C26000.
Gearbox Housing: Gray Iron 30.
Gearbox Lubrication: SAE 90 Gear Oil.
Gear: Alloy Steel 4620.
Gear Ratio: 4.09:1 Increase.
Bearings: Open Single Row Ball.
Flanges: (03H1) Aluminum Alloy 356-T6.
Gaskets: Cork w/Nitrile and Vegetable Fiber.
O-Rings: Buna-N.
Hardware: Standard Plated Steel.
Optional Equipment: Victaulic® Suction and Discharge Flanges.
Horizonal Victaulic® Discharge Flange.
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*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.

SEAL DETAIL
Type 2, Mechanical, Self-Lubricated. Carbon Rotating Face, Ni-Resist Stationary Face. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel 18-8 Cage and Spring. Maximum Temperature of Liquid Pumped, 160°F (71°C).*
**Specification Data**

**SECTION 110, PAGE 600**

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**APPROXIMATE DIMENSIONS and WEIGHTS**

<table>
<thead>
<tr>
<th>03H1-GL &amp; 03H1-GR</th>
<th>03H3-GL &amp; 03H1-GR</th>
</tr>
</thead>
<tbody>
<tr>
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**THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO**

GORMAN-RUPP OF CANADA LIMITED • ST. THOMAS, ONTARIO, CANADA

Specifications Subject to Change Without Notice

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PERFORMANCE BASED ON WATER

PERFORMANCE BASED ON PETROLEUM

Curve Data

TOTAL HEAD

GEAR RATIO 4091

SPEEDS SHOWN ARE INPUT SPEEDS

PERFORMANCE CURVE

VOLUTE 8274-A CURVE 03H-GL & GR-1
IMPELLER 8253-A MODEL 03H-GL & GR

OPERATING RANGE

SIZE 3"X3" IMP.DIA. 7.25"

SP.GR. .80 RPM NOTED

THE GORMAN-RUPP COMPANY
MANSFIELD, OHIO

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