



## VG & VGH SERIES

High Efficiency Standard  
Centrifugal Pumps



*The Pump People®*





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GORDIAN  
PUMP  
MAY 1982

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21-283-LEPB



# A History Of Innovation

**Gorman-Rupp has been revolutionizing the pumping industry since 1933. Many of the innovations introduced by Gorman-Rupp over the years have become industry standards.**

Gorman-Rupp developed its first self-priming centrifugal pump to provide our customers with a durable, reliable pump that could perform in a demanding environment. Since then, we've worked closely with our customers around the world to meet their solids-handling and clean fluid transfer needs.

With over one million Gorman-Rupp pumps and pump stations installed to date, we have the experience to intimately understand pumping requirements. Our worldwide network of distributors has experienced industry professionals on staff, giving us firsthand knowledge of your most difficult applications.

We help you solve these challenges and make the most of your limited resources by designing our pumps and stations to deliver decades of trouble-free performance. When you choose Gorman-Rupp for your pumping applications, you'll experience some of the lowest life cycle costs in the industry and benefit from minimal service interruptions. And you'll enjoy one of the highest customer satisfaction ratings in the industry—guaranteed.

## Engineered For Efficiency

**Gorman-Rupp VG and VGH Series centrifugal pumps are engineered for maximum operating efficiency and minimal energy consumption.**



# State-of-the-Art Equipment And Facilities

As the world's leading manufacturer of pumps and pumping systems, Gorman-Rupp offers you access to one of the largest and highest quality lines of pumps available in the marketplace today.

We maintain nearly one million square feet of the most modern manufacturing, testing and warehousing facilities in the world. Our experienced engineers take advantage of the latest technologies and innovations to custom-design, manufacture and assemble our products.

We perform rigorous testing based on Hydraulic Institute standards and test to

customers' actual operating conditions in our state-of-the-art testing facility guaranteeing innovative, superior-quality products that are ready to tackle your toughest jobs.

To ensure you get the right equipment for your requirements, Gorman-Rupp partners with a worldwide network of distribution and provides them with the best and most extensive training. Gorman-Rupp distributors will work hand in hand with you to recommend, customize and specify equipment. And they are always available should you ever require service assistance.

**With just one number to call for parts and service, it's easy and convenient to keep your equipment performing as it should.**



## Gorman-Rupp VG & VGH Series:

# High Efficiency Standard Centrifugal Pumps



VG1 1/2D

VGH2C

VG3B

VG5C

VGH6D

VGH8D

## Superior Performance

Gorman-Rupp VG and VGH Series pumps are the right pump for the job when you need to reliably move fluids with maximum efficiency.

VG Series are general purpose pumps used for handling clean fluids. They are available with cast iron casing and impeller and are suitable for a variety of applications.

VGH Series are heavy-duty pumps used on a variety of applications from clean fluids to dirty liquids and mild abrasives. These pumps

feature a standard ductile iron casing, cast iron impeller with replaceable iron wear rings and a tungsten carbide/silicon carbide cartridge mechanical seal with fluorocarbon elastomers. VGH pumps are supplied with a heavy-duty oil-lubricated bearing pedestal for v-belt driving or can be mounted to electric motors if needed.

## Value

VG and VGH Series pumps boast some of the lowest life cycle cost in the industry. Because of the quality manufacturing and testing that go into every Gorman-Rupp product, you benefit from minimal service interruptions and some of the lowest maintenance requirements in the industry.

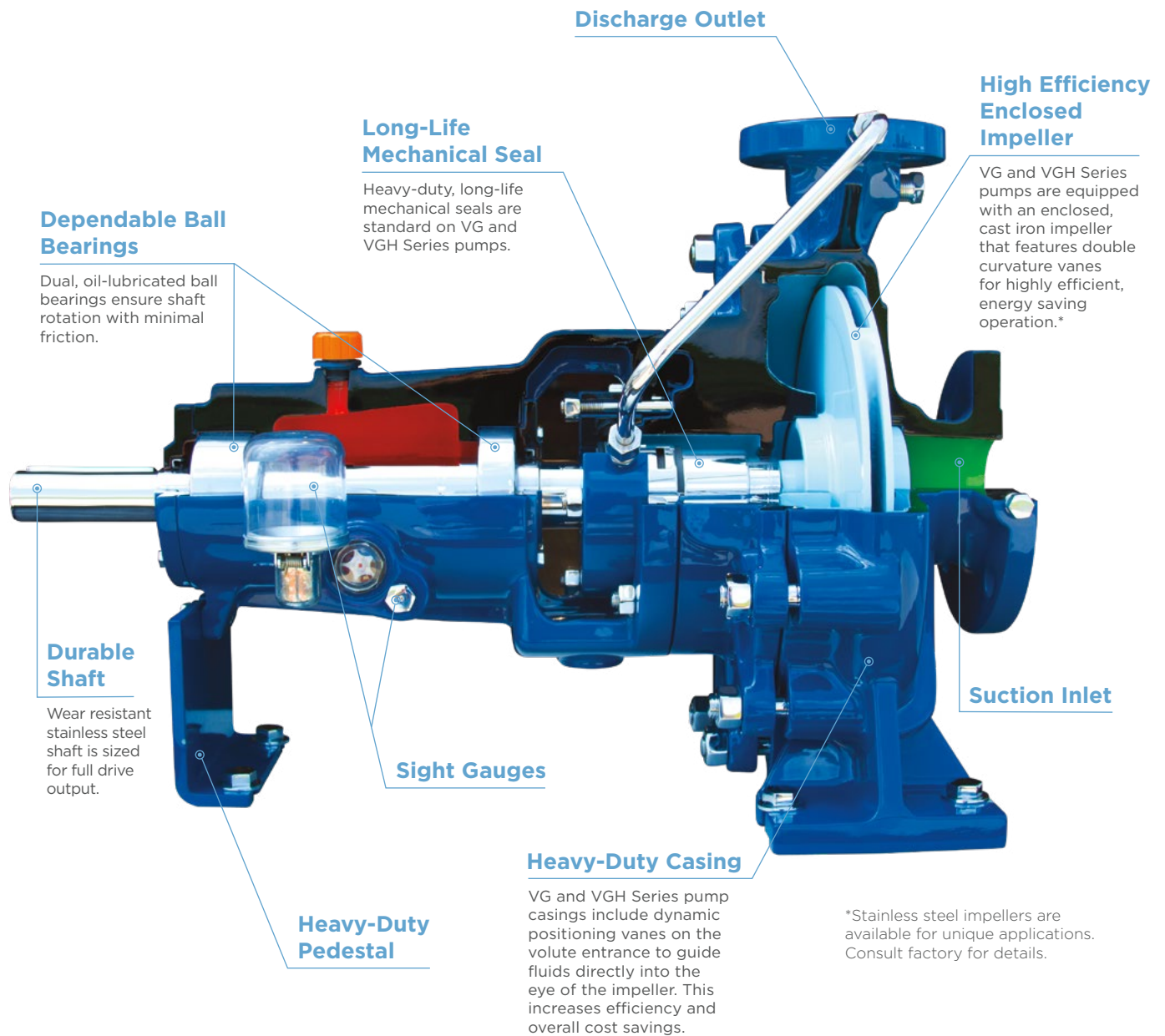
## Peace of Mind

At Gorman-Rupp, we don't just say our pumps are reliable. We guarantee every part and working component of a VG or VGH Series pump for 12 months. With Gorman-Rupp, reliable performance is always guaranteed.

VG and VGH Series pumps are available with a suction strainer, a hand primer or fitted with alternative gaskets and mechanical seals for pumping a variety of fuel and petroleum-based liquids.



# The Right Pump For The Job



## Specifications

**Pump Size:** 1.25" (30 mm), 1.5" (38 mm), 2" (50 mm), 2.5" (60 mm), 3" (80 mm), 4" (100 mm), 5" (125 mm), 6" (150 mm), 8" (200 mm)

**Max Capacity:** 4880 GPM (308 lps)

**Max Head:** 505' (154 m)

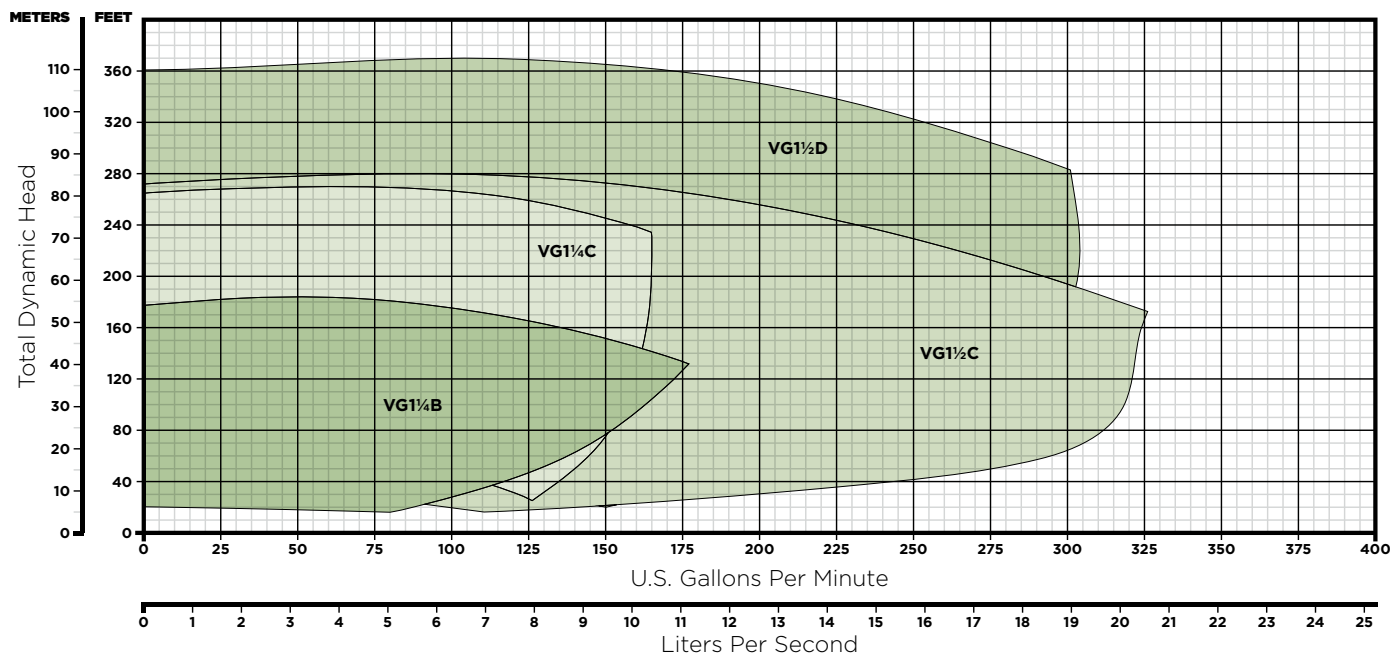
**Max Solids:** 1.38" (35 mm)

**Materials of Construction:** Cast Iron, Ductile Iron



# Setting A Whole New Standard In Energy Consumption

## VG Series: 1¼" to 1½" Models

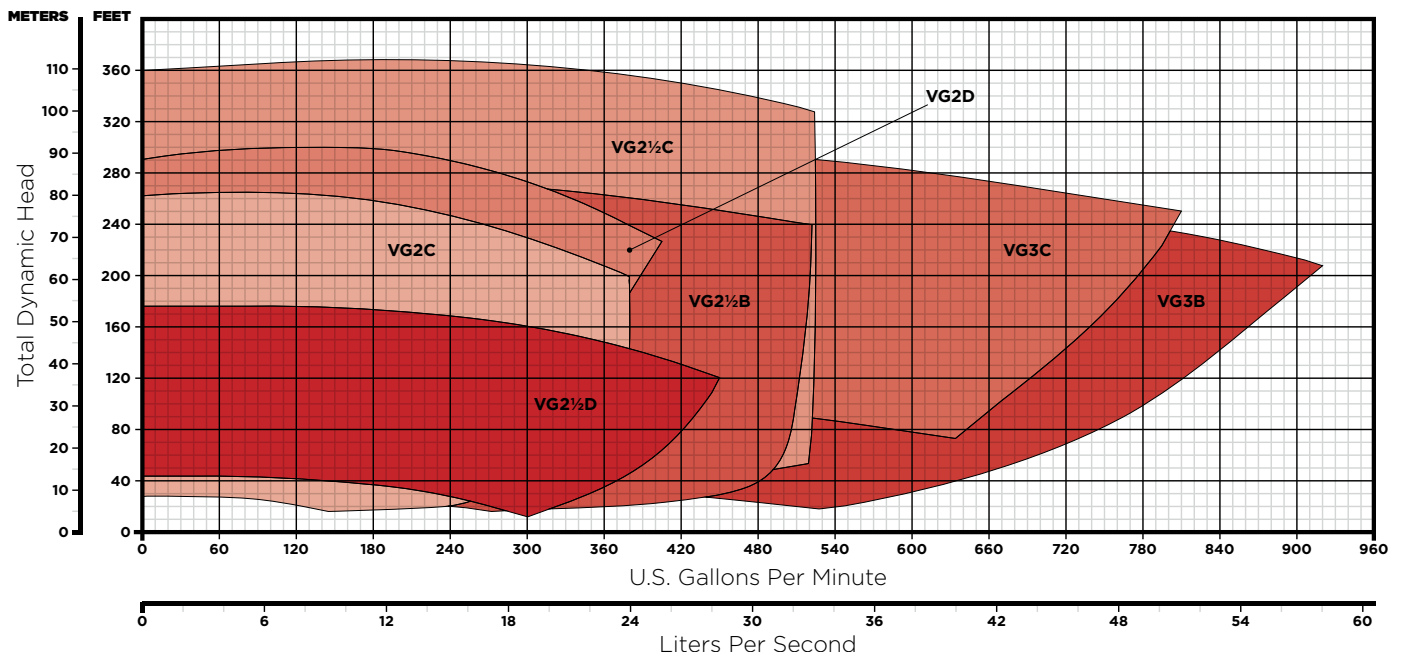


## Operating Ranges

| Model | Size (Suc. x Dis.)          | Max. Capacity    | Max. Head    | Max. Solids | Construction |
|-------|-----------------------------|------------------|--------------|-------------|--------------|
| VG1¼B | 2" x 1.25" (50 mm x 32 mm)  | 177 GPM (11 lps) | 184' (56 m)  | .28" (7 mm) | Cast Iron    |
| VG1¼C | 2" x 1.25" (50 mm x 32 mm)  | 164 GPM (10 lps) | 270' (82 m)  | .22" (6 mm) | Cast Iron    |
| VG1½C | 2.5" x 1.5" (64 mm x 38 mm) | 326 GPM (21 lps) | 280' (85 m)  | .31" (8 mm) | Cast Iron    |
| VG1½D | 2.5" x 1.5" (64 mm x 38 mm) | 304 GPM (19 lps) | 370' (113 m) | .31" (8 mm) | Cast Iron    |



## VG Series: 2" to 3" Models



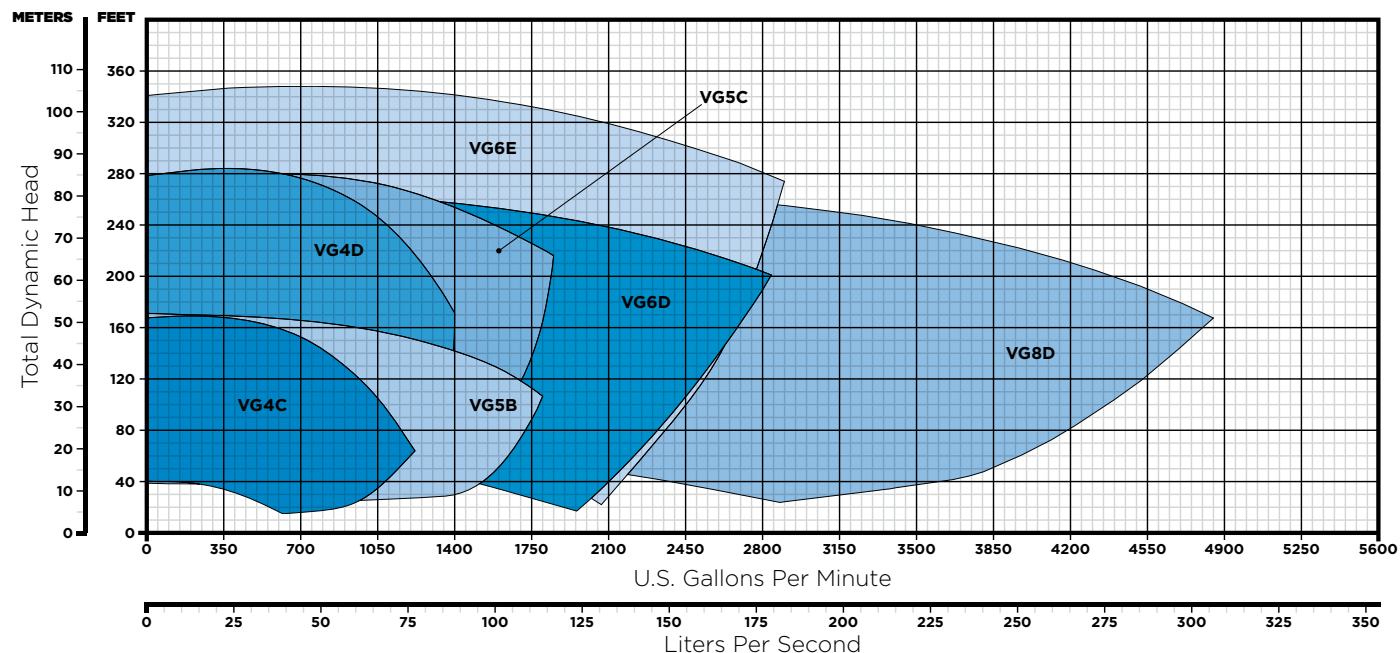
## Operating Ranges

| Model        | Size (Suc. x Dis.)        | Max. Capacity    | Max. Head    | Max. Solids  | Construction |
|--------------|---------------------------|------------------|--------------|--------------|--------------|
| <b>VG2C</b>  | 2.5" x 2" (64 mm x 50 mm) | 380 GPM (24 lps) | 265' (81 m)  | .44" (11 mm) | Cast Iron    |
| <b>VG2D</b>  | 2.5" x 2" (64 mm x 50 mm) | 405 GPM (26 lps) | 300' (91 m)  | .38" (10 mm) | Cast Iron    |
| <b>VG2½B</b> | 3" x 2.5" (75 mm x 64 mm) | 522 GPM (33 lps) | 275' (84 m)  | .56" (14 mm) | Cast Iron    |
| <b>VG2½C</b> | 3" x 2.5" (75 mm x 64 mm) | 525 GPM (33 lps) | 368' (112 m) | .44" (11 mm) | Cast Iron    |
| <b>VG2½D</b> | 3" x 2.5" (75 mm x 64 mm) | 450 GPM (28 lps) | 176' (54 m)  | .38" (10 mm) | Cast Iron    |
| <b>VG3B</b>  | 4" x 3" (100 mm x 75 mm)  | 920 GPM (58 lps) | 275' (84 m)  | .81" (21 mm) | Cast Iron    |
| <b>VG3C</b>  | 4" x 3" (100 mm x 75 mm)  | 810 GPM (51 lps) | 300' (91 m)  | .56" (14 mm) | Cast Iron    |

## Gorman-Rupp VG & VGH Series:

# Maximum Operating Efficiency

### VG Series: 4" to 8" Models

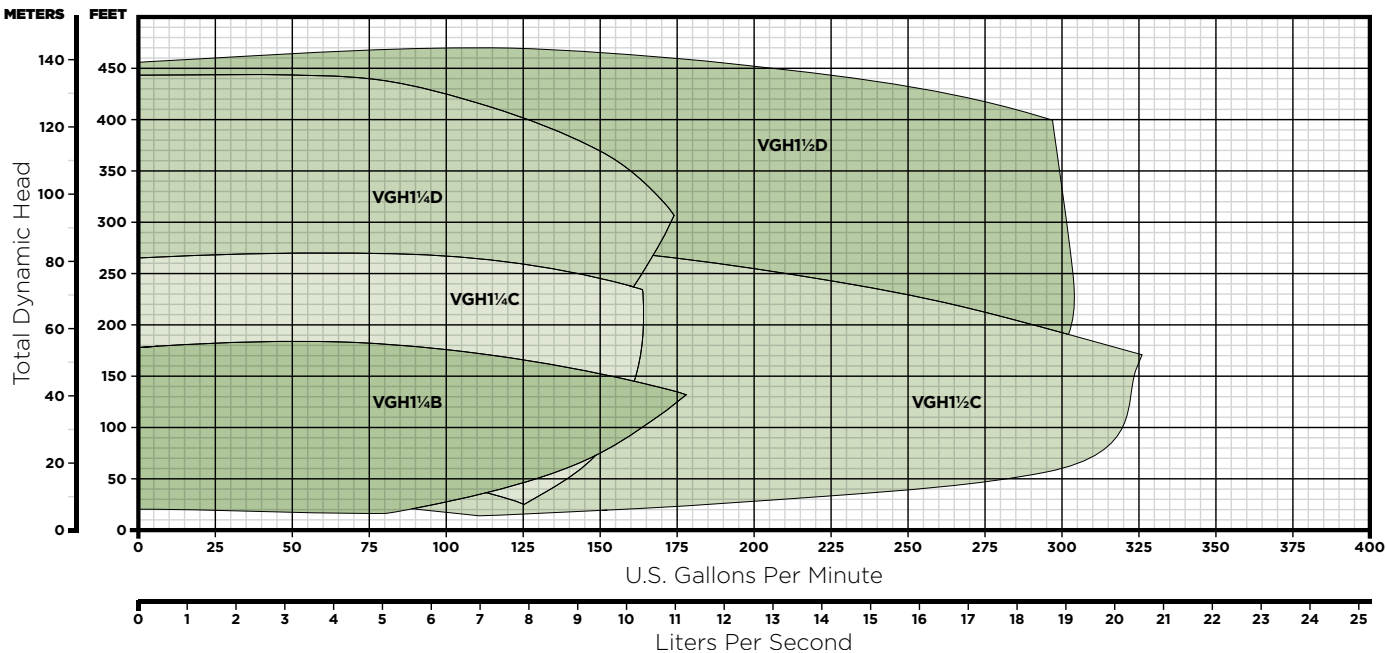


## Operating Ranges

| Model       | Size (Suc. x Dis.)         | Max. Capacity      | Max. Head    | Max. Solids   | Construction |
|-------------|----------------------------|--------------------|--------------|---------------|--------------|
| <b>VG4C</b> | 5" x 4" (127 mm x 100 mm)  | 1220 GPM (77 lps)  | 169' (52 m)  | .69" (18 mm)  | Cast Iron    |
| <b>VG4D</b> | 5" x 4" (127 mm x 100 mm)  | 1400 GPM (88 lps)  | 284' (87 m)  | .63" (16 mm)  | Cast Iron    |
| <b>VG5B</b> | 6" x 5" (150 mm x 127 mm)  | 1800 GPM (114 lps) | 170' (52 m)  | .88" (22 mm)  | Cast Iron    |
| <b>VG5C</b> | 6" x 5" (150 mm x 127 mm)  | 1850 GPM (117 lps) | 280' (85 m)  | .75" (19 mm)  | Cast Iron    |
| <b>VG6D</b> | 8" x 6" (200 mm x 150 mm)  | 2840 GPM (179 lps) | 266' (81 m)  | 1.06" (27 mm) | Cast Iron    |
| <b>VG6E</b> | 8" x 6" (200 mm x 150 mm)  | 2900 GPM (183 lps) | 348' (106 m) | 1.00" (25 mm) | Cast Iron    |
| <b>VG8D</b> | 10" x 8" (250 mm x 200 mm) | 4850 GPM (306 lps) | 268' (82 m)  | 1.38" (35 mm) | Cast Iron    |



## VGH Series: 1¼" to 1½" Models



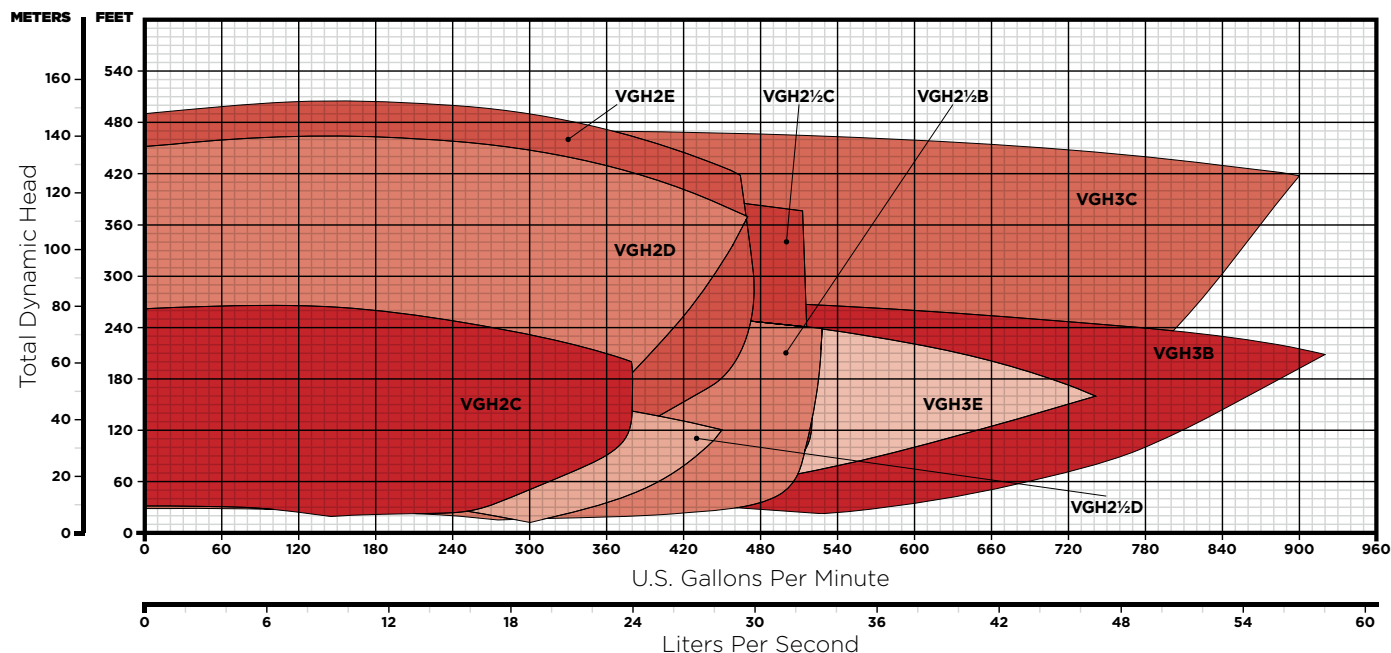
## Operating Ranges

| Model  | Size (Suc. x Dis.)          | Max. Capacity    | Max. Head    | Max. Solids | Construction |
|--------|-----------------------------|------------------|--------------|-------------|--------------|
| VGH1¼B | 2" x 1.25" (50 mm x 32 mm)  | 178 GPM (11 lps) | 184' (56 m)  | .23" (6 mm) | Ductile Iron |
| VGH1¼C | 2" x 1.25" (50 mm x 32 mm)  | 164 GPM (10 lps) | 270' (82 m)  | .17" (5 mm) | Ductile Iron |
| VGH1¼D | 2" x 1.25" (50 mm x 32 mm)  | 174 GPM (11 lps) | 444' (135 m) | .25" (7 mm) | Ductile Iron |
| VGH1½C | 2.5" x 1.5" (64 mm x 38 mm) | 326 GPM (21 lps) | 280' (85 m)  | .27" (7 mm) | Ductile Iron |
| VGH1½D | 2.5" x 1.5" (64 mm x 38 mm) | 304 GPM (19 lps) | 470' (143 m) | .25" (7 mm) | Ductile Iron |



# Excelling Where Other Pumps Fall Short

## VGH Series: 2" to 3" Models

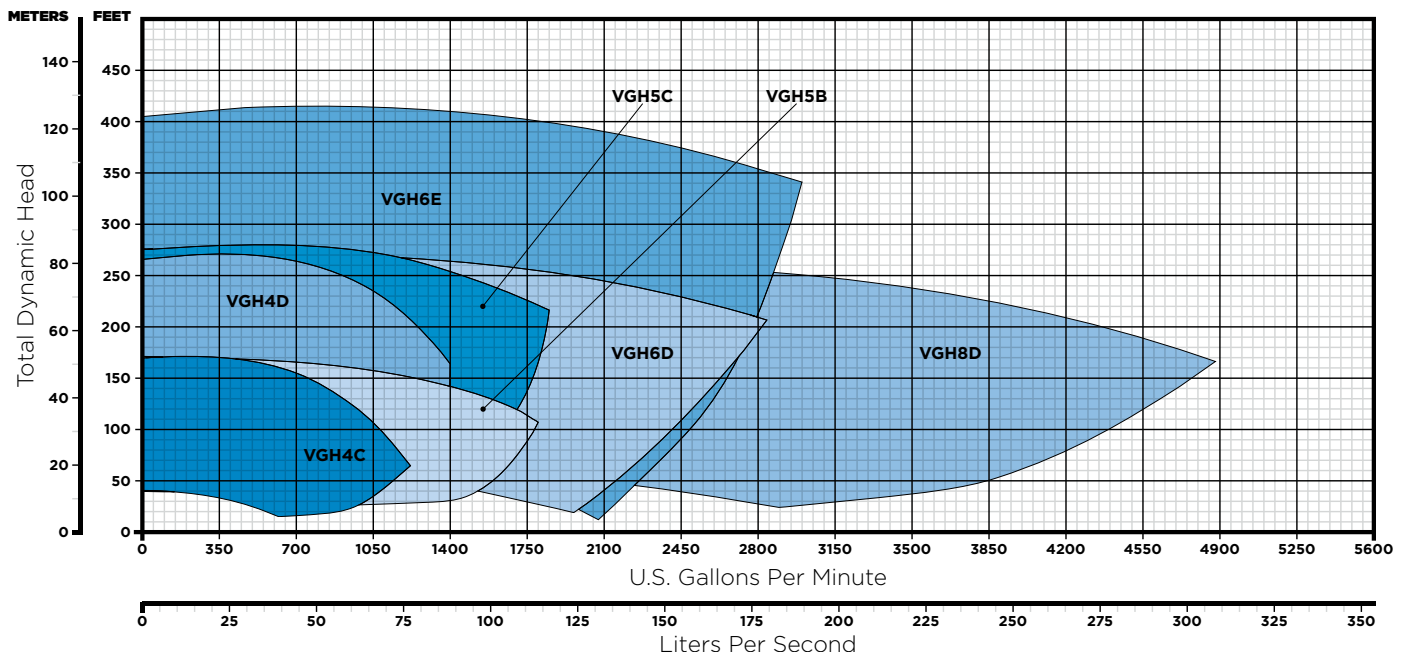


## Operating Ranges

| Model  | Size (Suc. x Dis.)         | Max. Capacity    | Max. Head    | Max. Solids  | Construction |
|--------|----------------------------|------------------|--------------|--------------|--------------|
| VGH2C  | 3" x 2" (75 mm x 50 mm)    | 380 GPM (24 lps) | 266' (81 m)  | .39" (10 mm) | Ductile Iron |
| VGH2D  | 3" x 2" (75 mm x 50 mm)    | 470 GPM (30 lps) | 464' (141 m) | .34" (9 mm)  | Ductile Iron |
| VGH2E  | 3" x 2" (75 mm x 50 mm)    | 475 GPM (30 lps) | 505' (154 m) | .27" (7 mm)  | Ductile Iron |
| VGH2½B | 4" x 2.5" (100 mm x 64 mm) | 528 GPM (33 lps) | 275' (84 m)  | .55" (14 mm) | Ductile Iron |
| VGH2½C | 4" x 2.5" (100 mm x 64 mm) | 520 GPM (33 lps) | 414' (126 m) | .47" (12 mm) | Ductile Iron |
| VGH2½D | 4" x 2.5" (100 mm x 64 mm) | 450 GPM (28 lps) | 176' (54 m)  | .34" (9 mm)  | Ductile Iron |
| VGH3B  | 5" x 3" (127 mm x 75 mm)   | 920 GPM (58 lps) | 275' (84 m)  | .55" (14 mm) | Ductile Iron |
| VGH3C  | 5" x 3" (127 mm x 75 mm)   | 900 GPM (57 lps) | 470' (143 m) | .55" (14 mm) | Ductile Iron |
| VGH3E  | 5" x 3" (127 mm x 75 mm)   | 730 GPM (46 lps) | 262' (80 m)  | .42" (11 mm) | Ductile Iron |



## VGH Series: 4" to 8" Models



## Operating Ranges

| Model        | Size (Suc. x Dis.)         | Max. Capacity      | Max. Head    | Max. Solids  | Construction |
|--------------|----------------------------|--------------------|--------------|--------------|--------------|
| <b>VGH4C</b> | 5" x 4" (127 mm x 100 mm)  | 1220 GPM (77 lps)  | 171' (52 m)  | .66" (17 mm) | Ductile Iron |
| <b>VGH4D</b> | 5" x 4" (127 mm x 100 mm)  | 1400 GPM (88 lps)  | 284' (87 m)  | .63" (18 mm) | Ductile Iron |
| <b>VGH5B</b> | 6" x 5" (150 mm x 127 mm)  | 1800 GPM (114 lps) | 171' (52 m)  | .88" (23 mm) | Ductile Iron |
| <b>VGH5C</b> | 6" x 5" (150 mm x 127 mm)  | 1850 GPM (117 lps) | 280' (85 m)  | .78" (20 mm) | Ductile Iron |
| <b>VGH6D</b> | 8" x 6" (200 mm x 150 mm)  | 2840 GPM (179 lps) | 268' (82 m)  | 1" (27 mm)   | Ductile Iron |
| <b>VGH6E</b> | 8" x 6" (200 mm x 150 mm)  | 3000 GPM (189 lps) | 415' (126 m) | 1" (25 mm)   | Ductile Iron |
| <b>VGH8D</b> | 10" x 8" (250 mm x 200 mm) | 4880 GPM (308 lps) | 266' (81 m)  | 1.2" (35 mm) | Ductile Iron |

# After Sale Support

Gorman-Rupp products stand the test of time due to our quality manufacturing processes, rigorous product testing and extensive after sale support.

## Product Support

Every pump manufactured by Gorman-Rupp is supported with reference information. Pump operation and maintenance manuals (including parts lists), specification data sheets, performance curves and outline drawings in PDF and CAD formats are available on our website or through your distributor for every pump.

## Warranty

The warranties on Gorman-Rupp products are some of the best in the industry. Gorman-Rupp has you covered with warranties up to 60 months.

## Education & Safety

Gorman-Rupp is committed to remaining at the forefront of the industry with technology and safety. Training videos, demos and

in-person training sessions created for our distributors and end-users help to keep everyone up to date on the latest safety tips and pump maintenance.

## Parts

When you need a replacement part, you'll have it fast. Gorman-Rupp is fully committed to keeping your equipment running long after installation and ensuring your pump or lift station continues to meet your requirements year after year. We sell parts through our network of distributors. Find a distributor in your area for assistance.

## Service

Should your pump or lift station require service, our worldwide network of factory-trained distributors are ready to quickly respond. Our distributors have the expertise to support you and your pump or lift station long after installation.

## Manufacturing Facilities

**Gorman-Rupp USA**  
Mansfield, Ohio, USA

**Gorman-Rupp Canada**  
St. Thomas, Ontario, Canada

**Gorman-Rupp Europe**  
Waardenburg, Netherlands  
Namur, Belgium

**Gorman-Rupp Africa**  
Cape Town, South Africa  
Durban, South Africa  
Johannesburg, South Africa (Headquarters)

## Distribution Center

Grand Prairie, Texas, USA

Engineering and manufacturing superiority has been the hallmark of Gorman-Rupp since our inception in 1933. Today we bring our products to life in some of the most efficient, modern and state-of-the-art manufacturing facilities in the world. Gorman-Rupp has a selection of nearly 3,000 pump models, and our world-class team of distributors has worked closely with thousands of end users around the world. We have the proven expertise and the resources to specify, manufacture, test and service your pump, and to ensure reliable performance for the long haul.

**GRPUMPS.COM**

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