



6400 SERIES™

Standard
End Suction
Centrifugal
Pumps



The Pump People®

Pumps For A Variety Of Applications

Gorman-Rupp 6400 Series™ pumps will be found operating in the most hostile environments. Their simple design allows for greater efficiencies over self-priming alternatives in flooded suction installations. Additionally, each pump comes with a five-year warranty guaranteeing long-lasting, trouble-free operation.

Wastewater Treatment Plants

- Influent Equalization
- Primary Sludge
- RAS
- WAS
- Effluent
- Dewatering Feed
- Sludge Loading
- Flooded Suction Storm Water



Construction Sites & Mines

- Quarry Wash Plants
- Tire Washing
- Dust Control
- Dewatering Systems
- Drilling Fluid Transfer



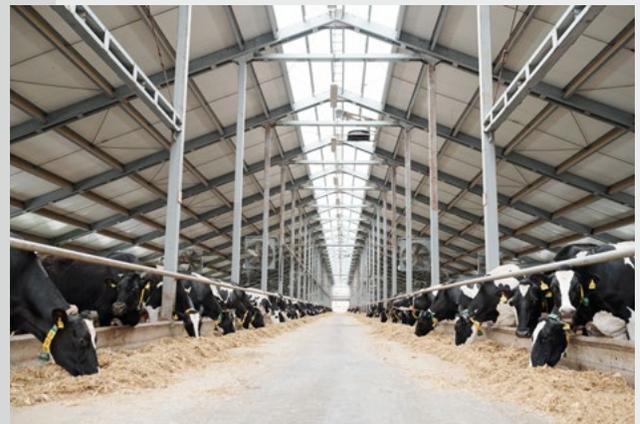
Industrial Facilities

- Contaminated Liquids
- Paint Slurries
- Washdown Pits
- Severe Process Applications
- Sludge Transfer
- Industrial Wastewater
- Centrifuge Feed
- Breweries
- Slaughter Houses



Agriculture

- Lagoon Systems
- Manure Pits
- Agricultural Waste
- Food Processing
- Manure Wastewater Treatment
- Liquid Fertilizer



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.

More than ever, we continue to update our factories, processes, research and development and engineering to ensure that our pumps and systems are among the most reliable and efficient in the world. One of our most successful and innovative lines of pumps has been our self-priming models.

Revolutionary improvements were made in the 1960s with the introduction of our T Series® self-priming pumps. Since then, continuous improvements to head, flow and efficiency have been made.

6400 Series™ end suction centrifugal pumps are designed for handling clean

liquids or liquids containing large solids. These end suction pumps are a leading choice for industrial plants, wastewater treatment facilities, mining and construction sites and farms. Our commitment to the original philosophy of innovation, continuous improvement, unparalleled quality and customer service continues to set us apart from other pump companies.



Legendary Design

Originally designed in 1963, the T Series self-priming centrifugal pump was specifically manufactured for handling raw, domestic sewage. These pumps quickly gained popularity for their ability to pass 3" spherical solids with minimal clogging.

Delivering Decades of Performance and Value

Gorman-Rupp is committed to meeting your fluid-handling requirements long after installation. The quality manufacturing and testing that go into every 6400 Series™ pump guarantee long-lasting, trouble-free operation. And we provide fast parts service to back up our products and ensure your peace of mind.

6400 Series™ pumps boast some of the lowest lifecycle costs in the industry. Because of the quality manufacturing and testing that goes into every Gorman-Rupp product, you benefit from minimal service interruptions and some of the lowest

maintenance in the industry. Gorman-Rupp delivers the best ROI by ensuring low operating costs for decades.

When you need a replacement part for your 6400 Series pump, you'll have it fast. With tens of thousands of genuine Gorman-Rupp parts and pumps at our disposal, we fill many part orders within 24 hours. Should your 6400 Series pump ever require service, our worldwide network of factory-trained distributors is ready to quickly respond to your needs.

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 6400 Series™

Standard End Suction Centrifugal Pumps



**6402C, 6402D,
6402E**

**6403A, 6403C, 6403D,
6403E, 6403F**

**6404A, 6404B, 6404C,
6404D, 6404E, 6404F**

Deal With Tough Solids Applications

New challenges for solids-handling pumps are presented with the rise of stringy solids being present in the liquid being pumped. These can be dealt with effectively with the Gorman-Rupp Eradicator® solids management wearplate.

For those extreme-duty applications where trash bags, wipes, hair, industrial by-products and agricultural wastes are present, Gorman-Rupp has introduced the Eradicator® Plus. Based on the same principles of the Eradicator, this new

solids reduction technology is ideal when cutting and tearing of debris entering the pump is required. The Eradicator and Eradicator Plus systems are available for most non-vortex 6400 Series™ pumps.



Eradicator® Wearplate

The Eradicator system features an aggressive self-cleaning wearplate incorporating a number of notches and grooves, as well as a revolutionary tooth, that helps break up stringy materials and pass them through the pump without impacting performance or interrupting service. The innovative design greatly reduces troublesome clogging and expensive downtime.



Eradicator® Plus Wearplate

The wearplate incorporated into Eradicator Plus pumps is constructed of extra-thick G-R Hard Iron. It utilizes the same notches and grooves as the Eradicator wearplate, but with an oversized lacerating tooth that is designed to cut and shred organic solids before they enter the interior of the pump.



Eradicator® Plus Impeller

Eradicator Plus pumps are equipped with a rugged, heavy-duty continuous vane impeller constructed of G-R Hard Iron for the most aggressive waste-handling applications. The pump out vanes incorporated into the thick back shroud help prevent the buildup of debris behind the impeller.



6406E



6408E

**6406A, 6406B, 6406C,
6406D, 6406E, 6406F**

**6408A, 6408C,
6408D, 6408E**

Maximum Versatility

6400 Series™ end suction centrifugal pumps are based on the proven components and technology of Gorman-Rupp's Super T Series® self-priming centrifugal pumps.

Already have a Super T Series pump? No need to stock extra spare parts on the shelf. Rotating assemblies (shaft, seal,

impeller* and wearplate) for most models are interchangeable with comparable Super T Series pumps. 6400 Series models follow the same footprint and shaft height as Super T Series pumps making them an easy, more efficient option in flooded suction applications.



Interchangeable Rotating Assembly

The entire rotating assembly** can be removed without disturbing the pump volute or piping. This allows for quick and easy installation of a spare rotating assembly, resulting in maximum uptime.



Cartridge Seal

Exclusive double-floating, self-aligning, oil lubricated mechanical cartridge seal with stationary and rotating face of silicon carbide or tungsten titanium carbide is specifically designed for abrasive and/or trash handling service. Consult the factory for additional seal configurations.

*Vortex impeller not interchangeable between models.

**Rotating assembly not interchangeable on 3" models.

End Suction Vortex Centrifugal Pumps



6404VA, 6404VB



6406VA, 6406VB

Heavy-Duty Design

6400 Series™ vortex centrifugal pumps feature multi-vane, precision-balanced, ductile iron impellers designed to handle a variety of solids-handling pumping applications.

These models incorporate auxiliary pump out vanes that

reduce hydraulic pressure on the primary seal and force fibrous solids away from the backside of the impeller. Impeller clearance adjustments or wear rings are not necessary on vortex type pumps.



VA

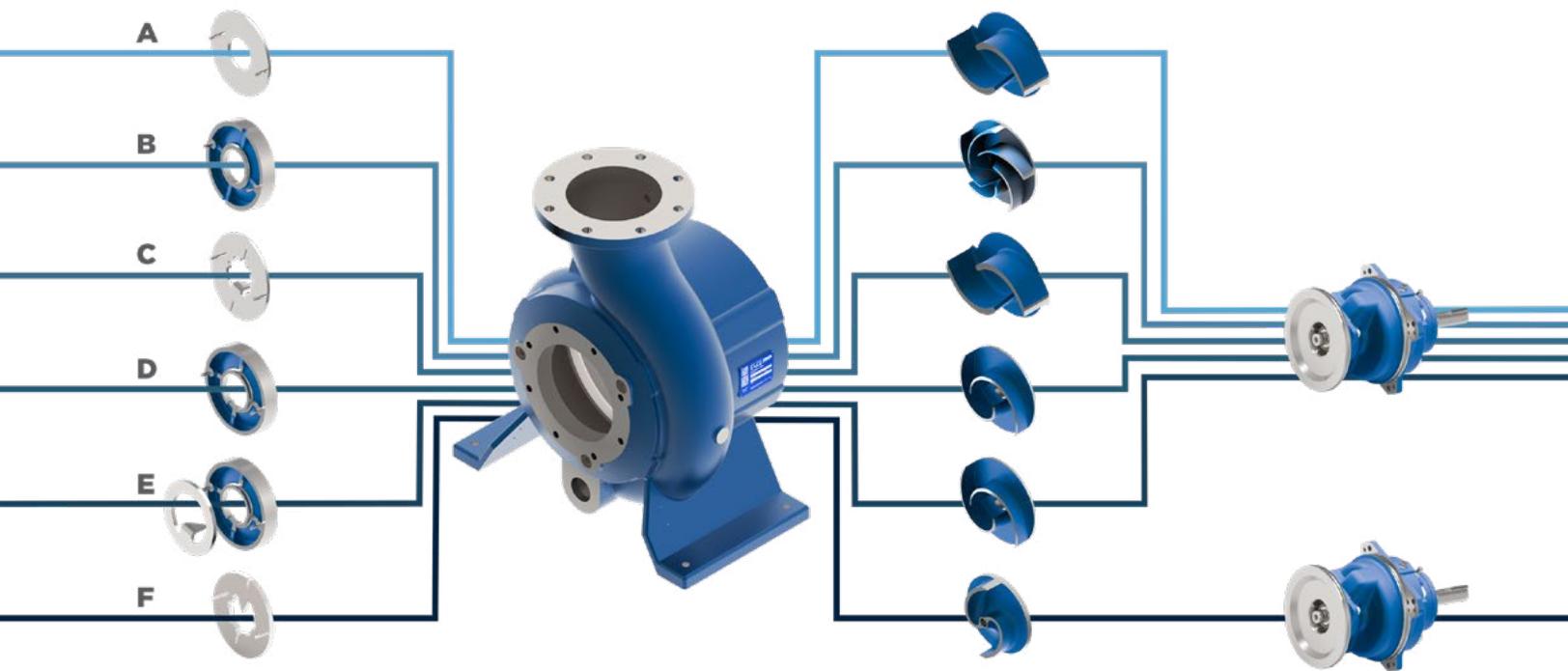
Vortex Model Impeller Options

Straight-vane impeller (**VA**) is designed for more aggressive, abrasive applications. This model is also better at handling stringy, fibrous debris. Winged-vane impeller (**VB**) is better suited for higher discharge pressures and incorporates a steeper performance curve, which requires less horsepower.



VB

The Versatility To Support Your Pumping Requirements



A Version

- Basic 6400 Series™ end suction centrifugal, solids-handling pump

B Version

- Higher efficiency (minimal solids passage)

C Version

- For dealing with tough solids-handling applications
- Eradicator® version

D Version

- Higher efficiency version, limited solids

E Version

- Higher efficiency version with Eradicator, limited solids

F Version

- For dealing with extreme-duty solids-handling applications
- Eradicator® Plus solids-reducing technology



1

Standard Model Impeller Options

Two-vane, ductile iron, semi-open solids-handling impeller **(1)** handles up to 3" (76.2 mm) diameter solids, depending on pump model. Pump out vanes on the impeller shroud reduce foreign material buildup behind the impeller and reduce pressure on seal and bearings. Multi-vane **(2)** and slim-line impellers



2



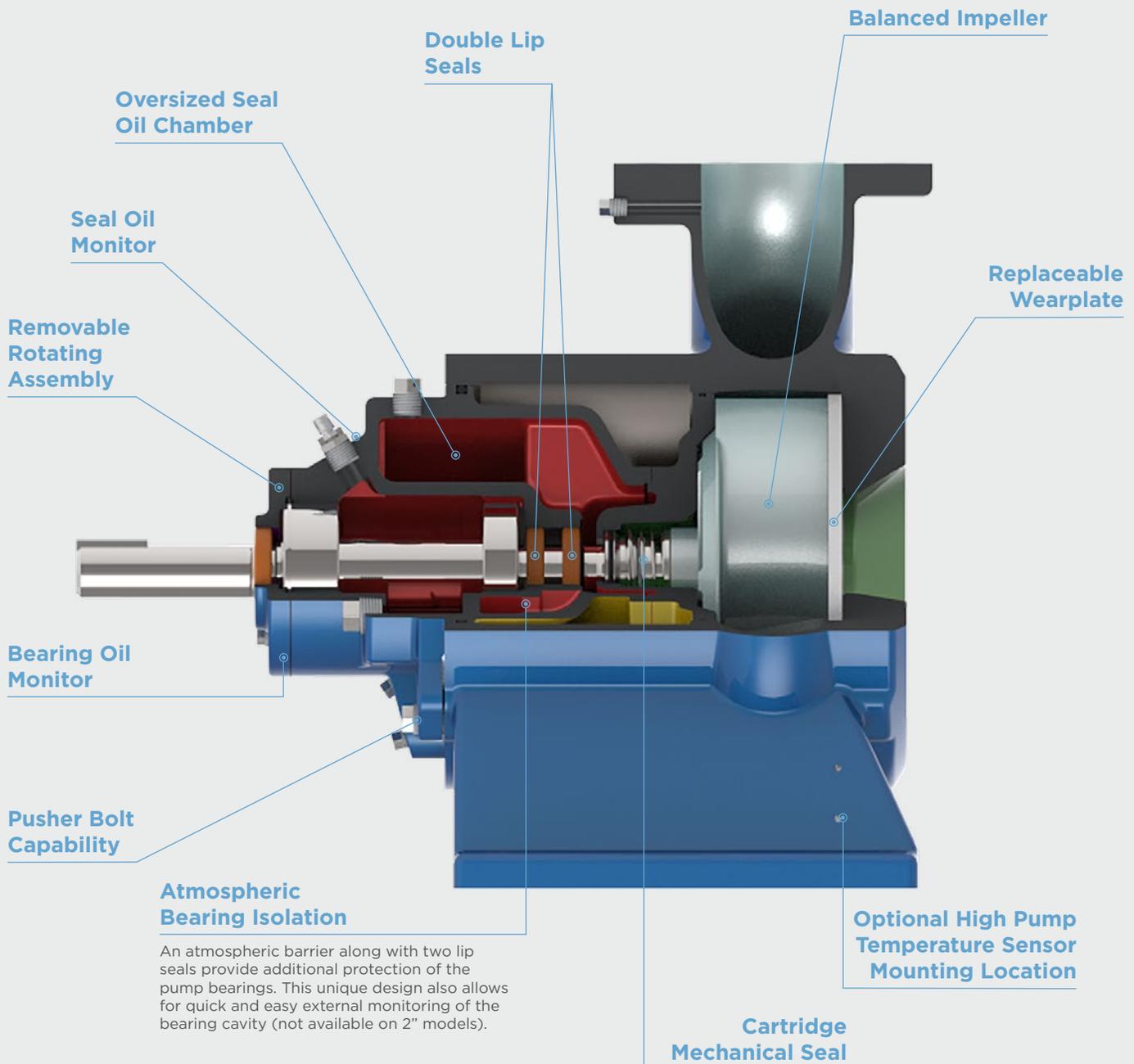
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(3) are available in various hydraulics for higher heads and higher efficiencies. Continuous, single-vane impeller **(4)** comes standard on Eradicator® Plus pump models for the heaviest-of-duty pumping applications. Optional materials are available based on your specific pumping requirements.



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6400 Series™ Product Features



Specifications

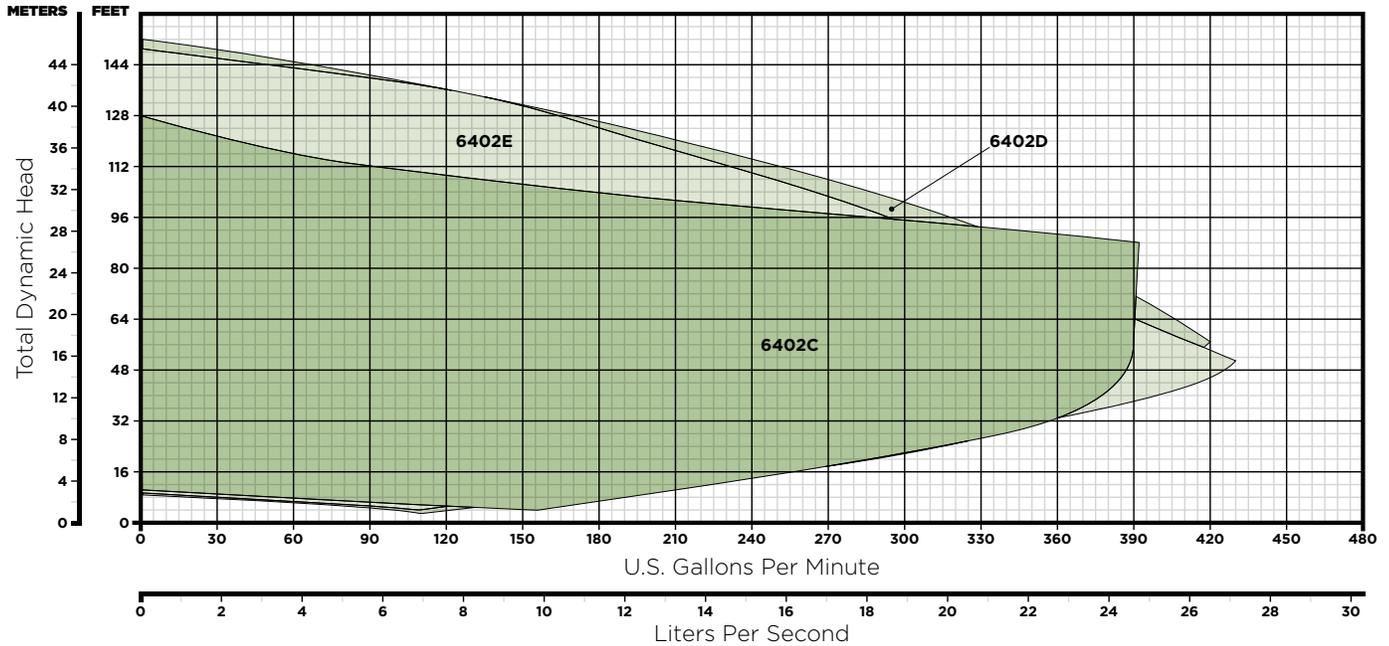
Pump Size: 2" (50 mm), 3" (75 mm), 4" (100 mm), 6" (150 mm), 8" (200 mm)
Max Capacity: 2740 GPM (173 lps)
Max Head: 170' (52 m)
Max Solids: 4" (102 mm)
Materials of Construction: Ductile Iron

All 6400 Series™ pumps come standard with the following warranties:



Built And Designed With The Quality You Can Rely On

2" Standard Models

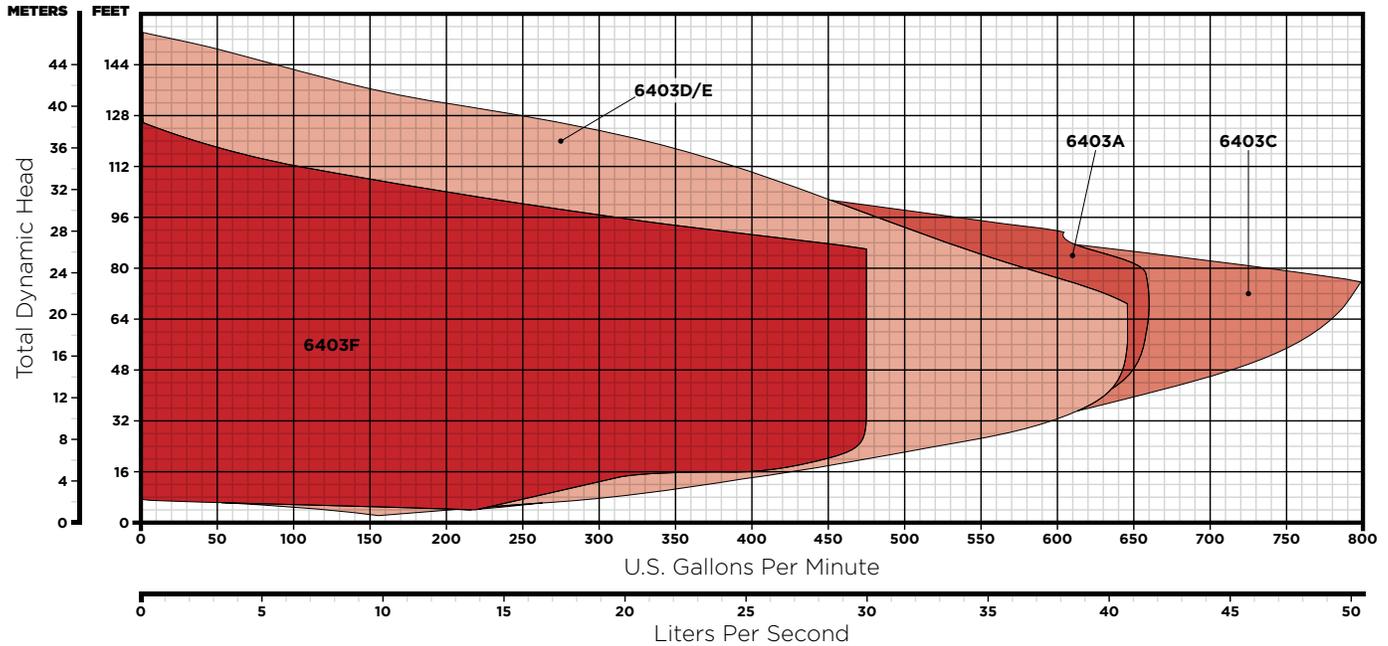


Operating Ranges

Model	Size (Suc. x Dis.)	Max. Capacity	Max. Head	Max. Solids	Construction
6402C	3" x 2" (75 mm x 50 mm)	392 GPM (25 lps)	108' (33 m)	1.5" (38 mm)	Ductile Iron
6402D	3" x 2" (75 mm x 50 mm)	420 GPM (27 lps)	136' (42 m)	.75" (19 mm)	Ductile Iron
6402E	3" x 2" (75 mm x 50 mm)	430 GPM (27 lps)	140' (43 m)	.75" (19 mm)	Ductile Iron

Pumps That Over Deliver And Outperform - Guaranteed

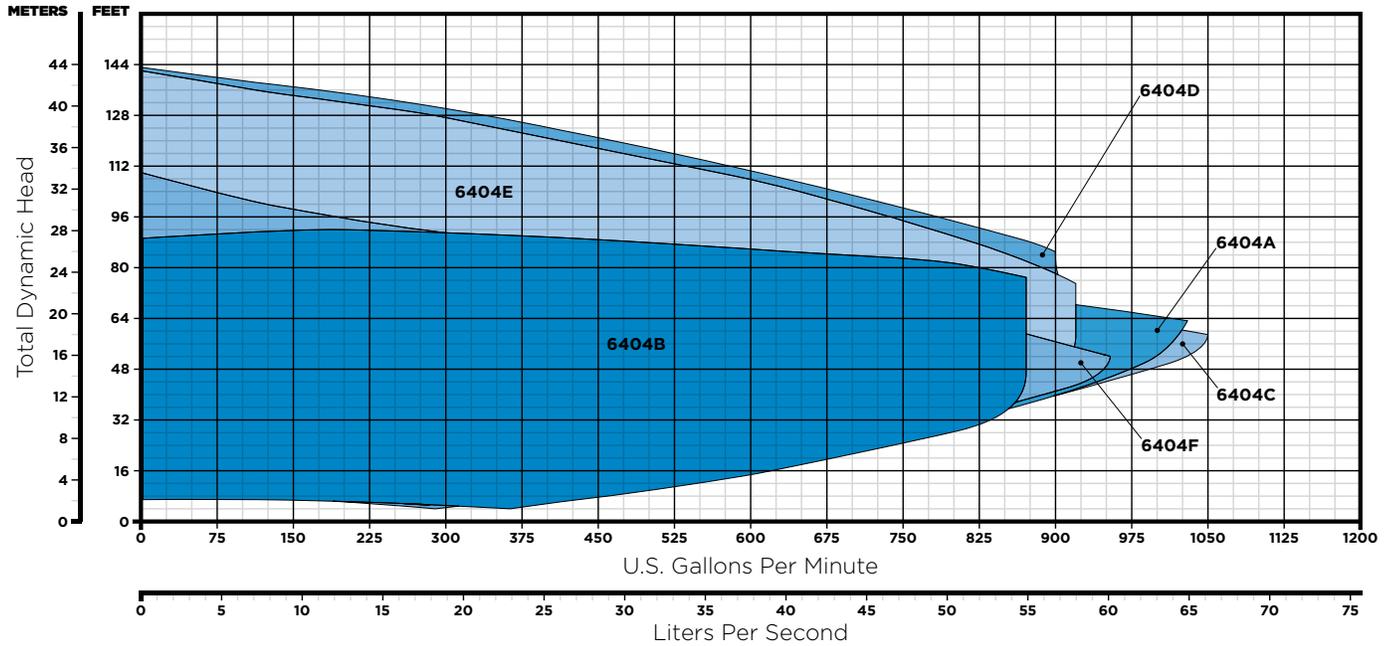
3" Standard Models



Operating Ranges

Model	Size (Suc. x Dis.)	Max. Capacity	Max. Head	Max. Solids	Construction
6403A	4" x 3" (100 mm x 75 mm)	660 GPM (42 lps)	114' (35 m)	2.5" (64 mm)	Ductile Iron
6403C	4" x 3" (100 mm x 75 mm)	800 GPM (51 lps)	106' (32 m)	2.5" (64 mm)	Ductile Iron
6403D	4" x 3" (100 mm x 75 mm)	646 GPM (41 lps)	137' (42 m)	1.5" (38 mm)	Ductile Iron
6403E	4" x 3" (100 mm x 75 mm)	646 GPM (41 lps)	137' (42 m)	1.5" (38 mm)	Ductile Iron
6403F	4" x 3" (100 mm x 75 mm)	475 GPM (30 lps)	104' (32 m)	1.75" (45 mm)	Ductile Iron

4" Standard Models

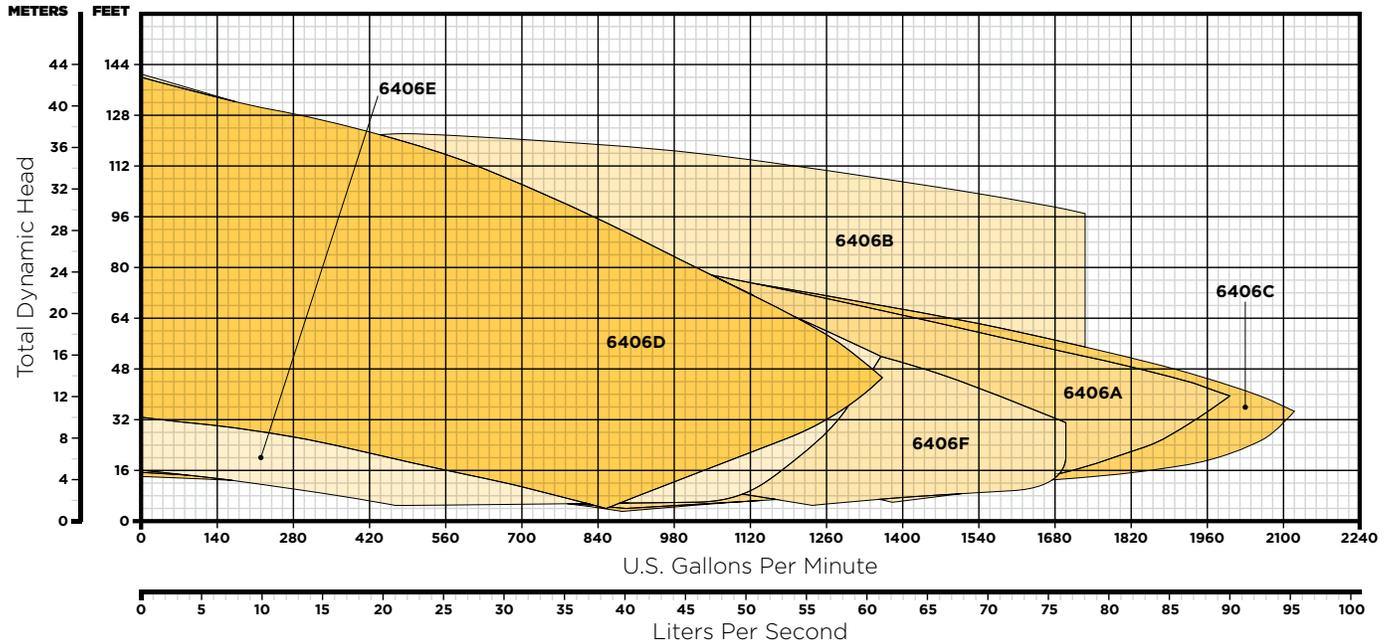


Operating Ranges

Model	Size (Suc. x Dis.)	Max. Capacity	Max. Head	Max. Solids	Construction
6404A	6" x 4" (150 mm x 100 mm)	1030 GPM (65 lps)	92' (28 m)	3" (76 mm)	Ductile Iron
6404B	6" x 4" (150 mm x 100 mm)	870 GPM (55 lps)	93' (28 m)	3" (76 mm)	Ductile Iron
6404C	6" x 4" (150 mm x 100 mm)	1050 GPM (66 lps)	87' (27 m)	3" (76 mm)	Ductile Iron
6404D	6" x 4" (150 mm x 100 mm)	916 GPM (58 lps)	132' (40 m)	1.5" (38 mm)	Ductile Iron
6404E	6" x 4" (150 mm x 100 mm)	920 GPM (58 lps)	128' (39 m)	1.5" (38 mm)	Ductile Iron
6404F	6" x 4" (150 mm x 100 mm)	954 GPM (60 lps)	84' (27 m)	2.25" (57 mm)	Ductile Iron

Designed & Manufactured For Your Toughest Applications

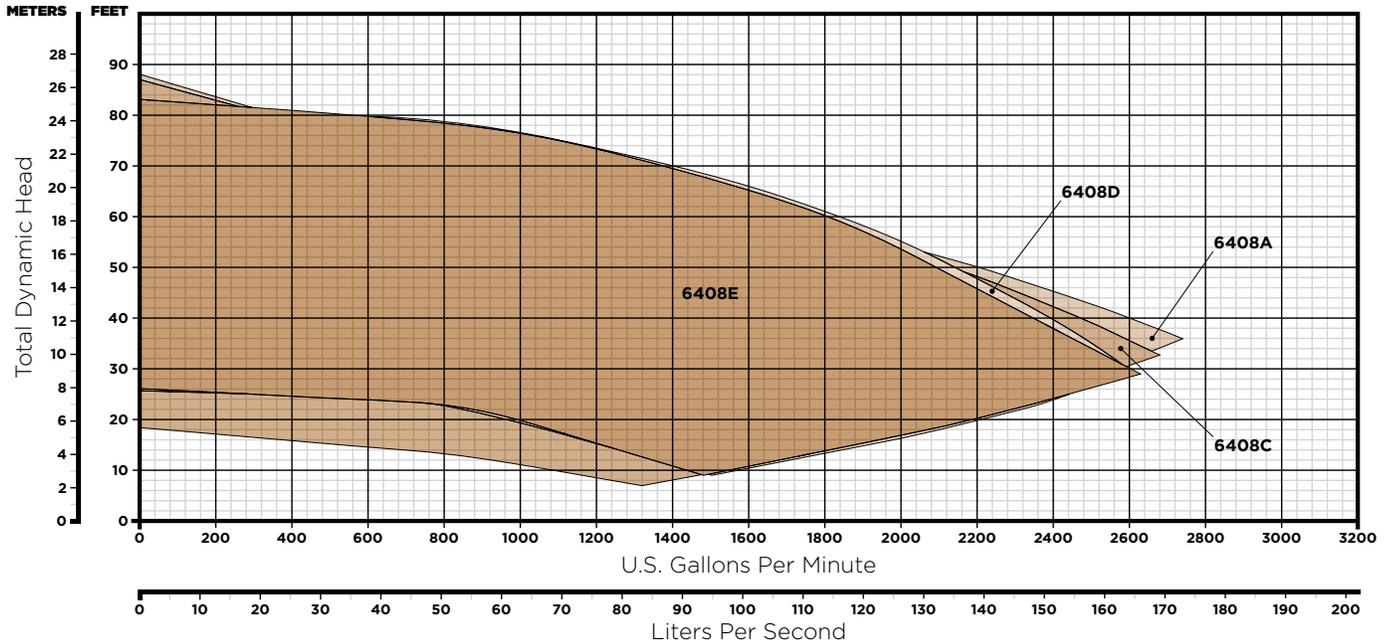
6" Standard Models



Operating Ranges

Model	Size (Suc. x Dis.)	Max. Capacity	Max. Head	Max. Solids	Construction
6406A	8" x 6" (200 mm x 150 mm)	2000 GPM (126 lps)	93' (28 m)	3" (76 mm)	Ductile Iron
6406B	8" x 6" (200 mm x 150 mm)	1736 GPM (110 lps)	122' (37 m)	1.25" (32 mm)	Ductile Iron
6406C	8" x 6" (200 mm x 150 mm)	2120 GPM (134 lps)	90' (27 m)	3" (76 mm)	Ductile Iron
6406D	8" x 6" (200 mm x 150 mm)	1362 GPM (86 lps)	126' (38 m)	1.5" (38 mm)	Ductile Iron
6406E	8" x 6" (200 mm x 150 mm)	1360 GPM (86 lps)	122' (37 m)	1.5" (38 mm)	Ductile Iron
6406F	8" x 6" (200 mm x 150 mm)	1700 GPM (107 lps)	84' (26 m)	2.25" (57 mm)	Ductile Iron

8" Standard Models

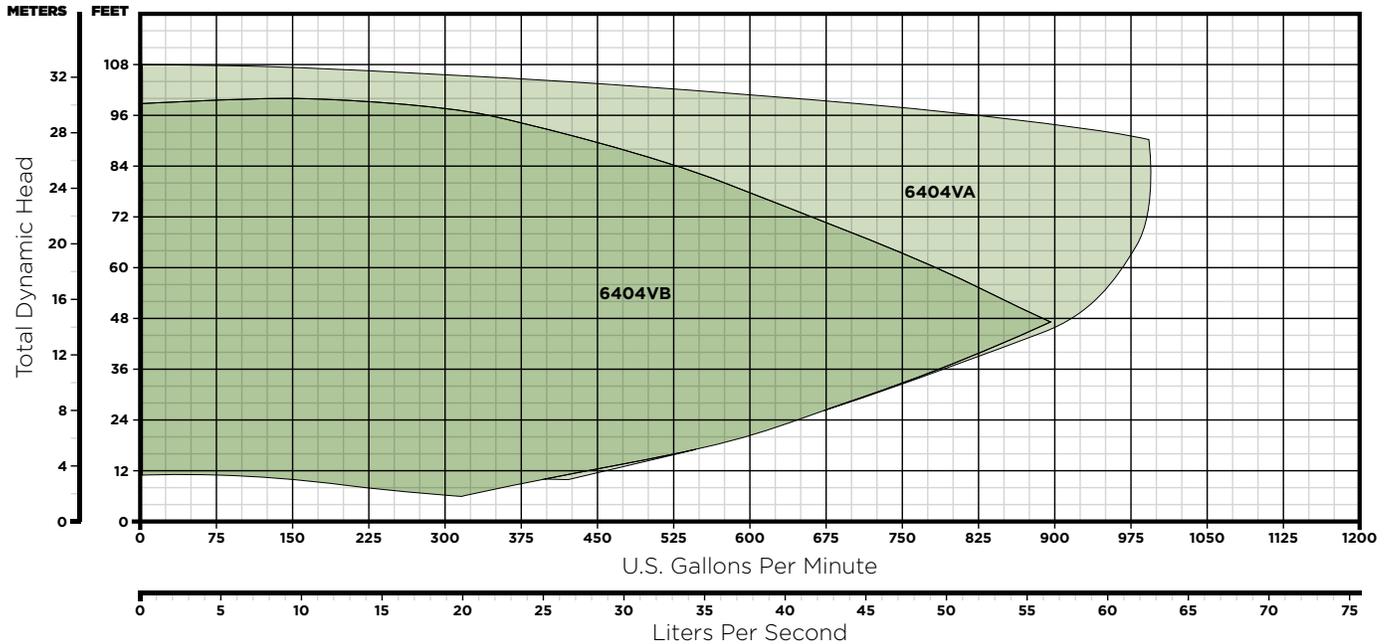


Operating Ranges

Model	Size (Suc. x Dis.)	Max. Capacity	Max. Head	Max. Solids	Construction
6408A	8" x 8" (200 mm x 200 mm)	2740 GPM (173 lps)	73' (22 m)	3" (76 mm)	Ductile Iron
6408B	8" x 8" (200 mm x 200 mm)	2680 GPM (169 lps)	74' (23 m)	3" (76 mm)	Ductile Iron
6408C	8" x 8" (200 mm x 200 mm)	2600 GPM (164 lps)	80' (24 m)	1.5" (38 mm)	Ductile Iron
6408D	8" x 8" (200 mm x 200 mm)	2630 GPM (166 lps)	80' (24 m)	1.5" (38 mm)	Ductile Iron

Vortex Models Built To Handle Anything You Throw At Them

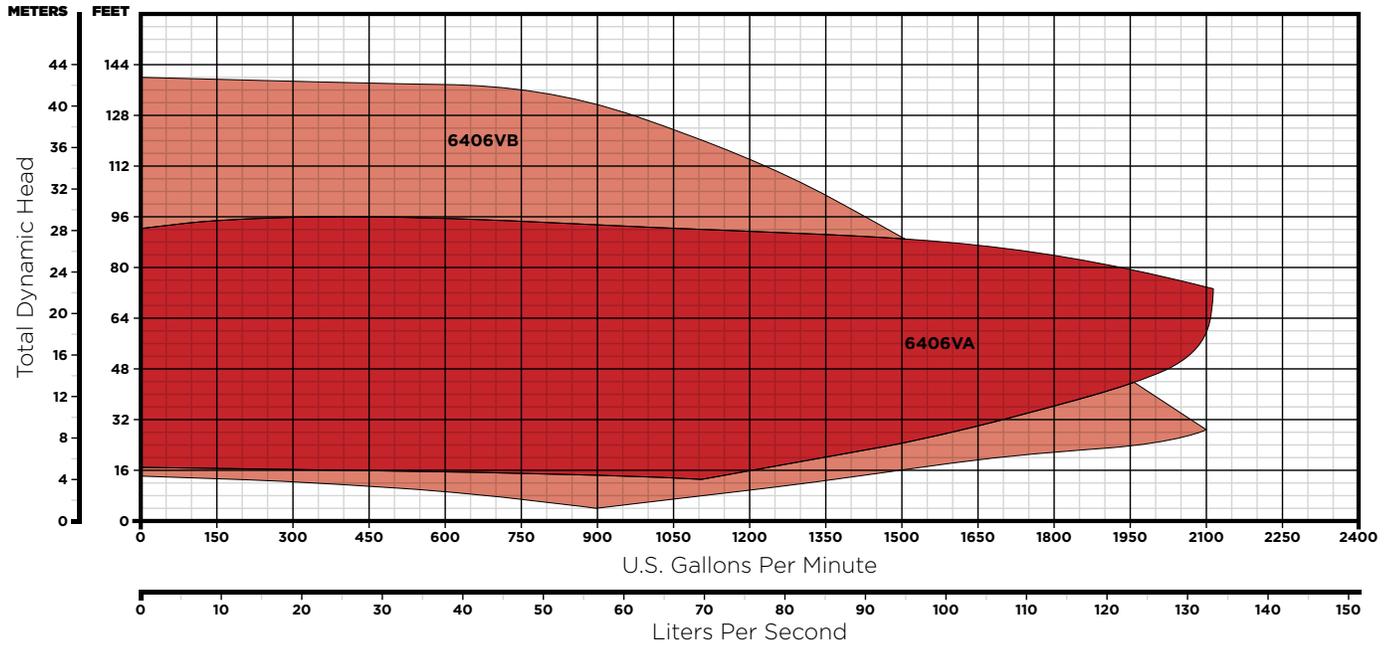
4" Vortex Models



Operating Ranges

Model	Size (Suc. x Dis.)	Max. Capacity	Max. Head	Max. Solids	Construction
6404VA	4" x 4" (100 mm x 100 mm)	995 GPM (63 lps)	107' (33 m)	3" (76 mm)	Ductile Iron
6404VB	4" x 4" (100 mm x 100 mm)	896 GPM (57 lps)	100' (31 m)	3" (76 mm)	Ductile Iron

6" Vortex Models



Operating Ranges

Model	Size (Suc. x Dis.)	Max. Capacity	Max. Head	Max. Solids	Construction
6406VA	6" x 6" (150 mm x 150 mm)	2160 GPM (137 lps)	96' (29 m)	4" (102 mm)	Ductile Iron
6406VB	6" x 6" (150 mm x 150 mm)	2120 GPM (134 lps)	139' (42 m)	4" (102 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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