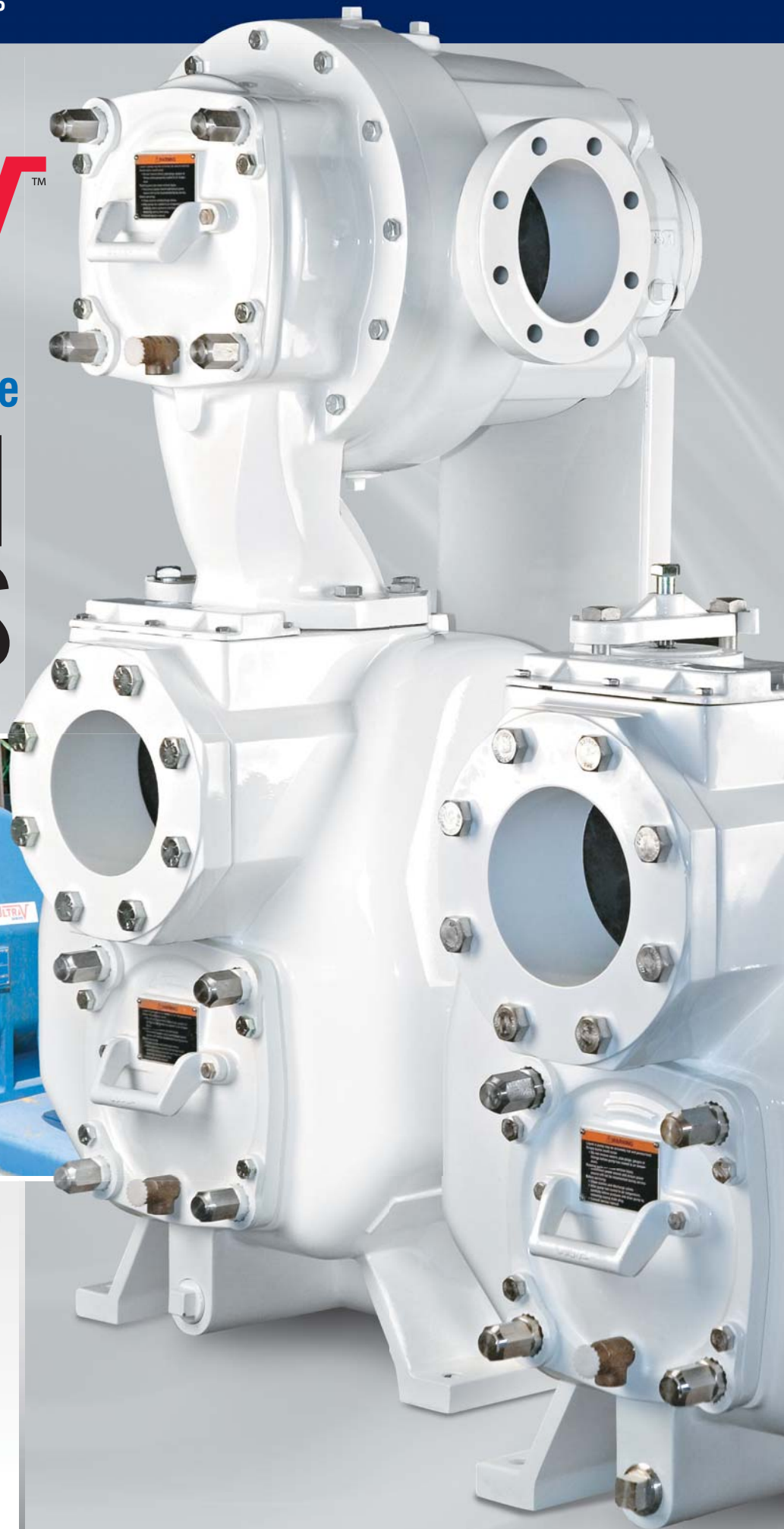


ULTRAVTM SERIES

High-Head,
High-Performance

TRASH PUMPS



GRpumps.com

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 1963 with the introduction of our T Series self-priming pumps. Since then, continuous improvements to head, flow and efficiency have been made.

In 2000 we introduced our Super T Series® with many added maintenance features to enhance serviceability.

Today, Gorman-Rupp self-priming pumps are the world's leading choice for waste-handling applications in industries such as steel and paper mills, mining operations, food processing plants, power plants, automotive factories, tanneries and wineries. They are also the pump of choice in many sewage-handling applications worldwide.



Patent Pending



With 75 years of manufacturing experience, you'll find a wealth of knowledge and expertise behind every Gorman-Rupp pump. With hundreds of thousands of pump installations worldwide and one of the leading distribution networks in the world, Gorman-Rupp serves a broad range of pump applications with the "Right Pump for the Job."



ULTRA VTM SERIES

Superior Performance

The next generation of solids-handling, self-priming, centrifugal trash pumps offers:

- **Three times the pressure**
- **Up to 60% increased flow**
- **Greater efficiencies**
- **Self-cleaning features**
- **Reduced footprint**
- **Unique configuration capabilities**
- **Improved solids-handling**

In addition to the above advanced features and benefits, the **Ultra V Series** also incorporates all the industry leading innovations from the leader in self-priming, centrifugal trash pumps... **Gorman-Rupp.**

Innovation in High-Head Performance

The **Ultra V Series**® and **VS Series** solids-handling, self-priming centrifugal trash pumps offer up to three times the pressure and up to 60% more performance.

Available in a variety of pump station configurations or stand-alone in 3", 4" and 6" sizes. The superior solids-handling and increased pressure capabilities of the **Ultra V Series** pumps make them ideally suited for a variety of industrial and sewage applications.



Drive Variations

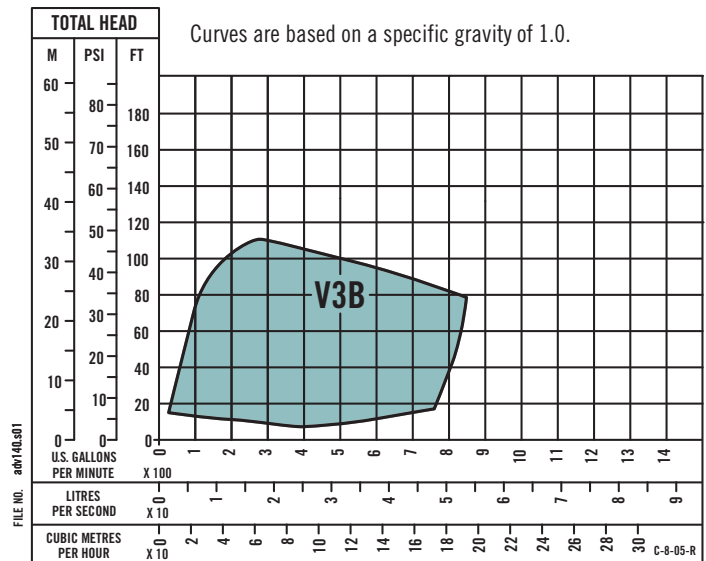
Gorman-Rupp **Ultra V Series** pumps are available as a basic unit, a trailer mounted engine-driven unit or as part of an engineered package pump station that is factory assembled, tested, and shipped, ready for installation, providing Total System Responsibility (TSR).

V3B: Three Inch Solids, Three Inch Pump

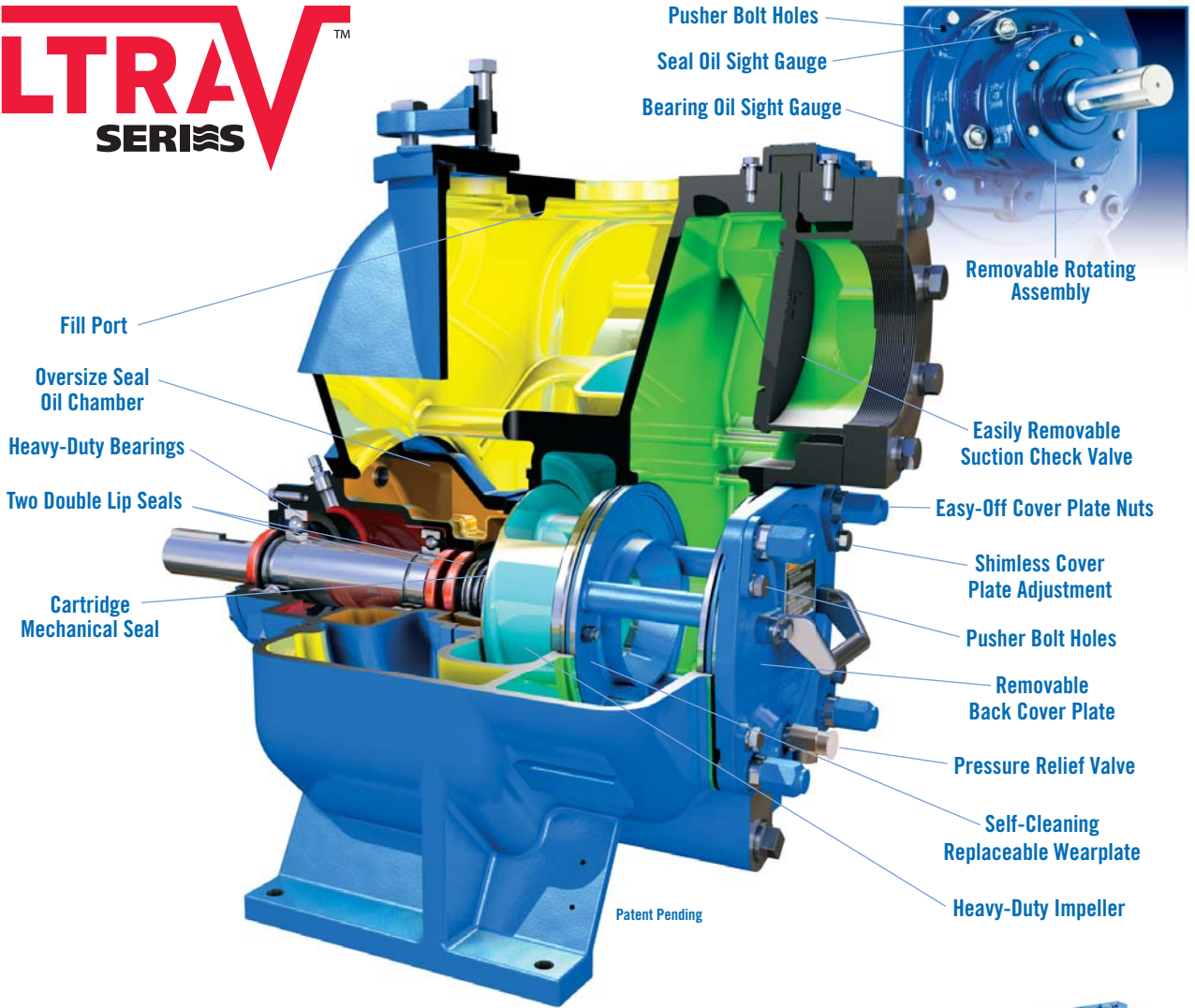
The family of **Ultra V Series** pumps has been broadened to include the V3B and VS3B. The "B" designation indicates an optional hydraulic design developed to meet three inch solids-handling requirements.



V3B – Performance Curves



ULTRA VTM SERIES

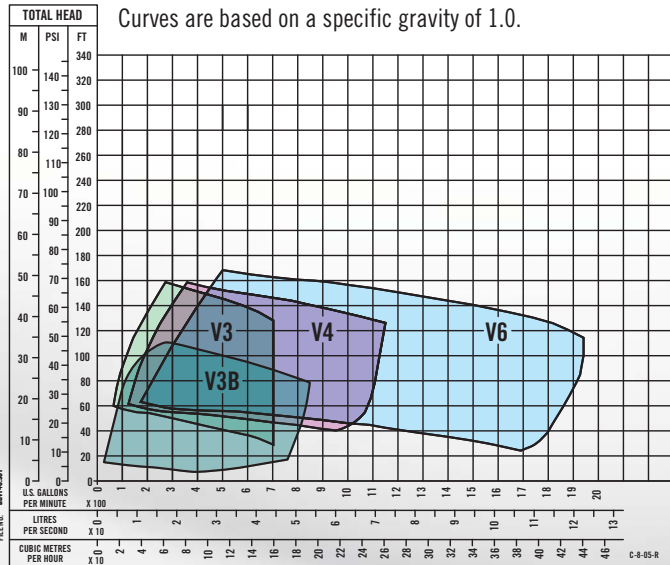


All Ultra V Series pumps come standard with an industry-leading 5 year warranty



Ultra V – Composite of Performance Curves

Curves are based on a specific gravity of 1.0.

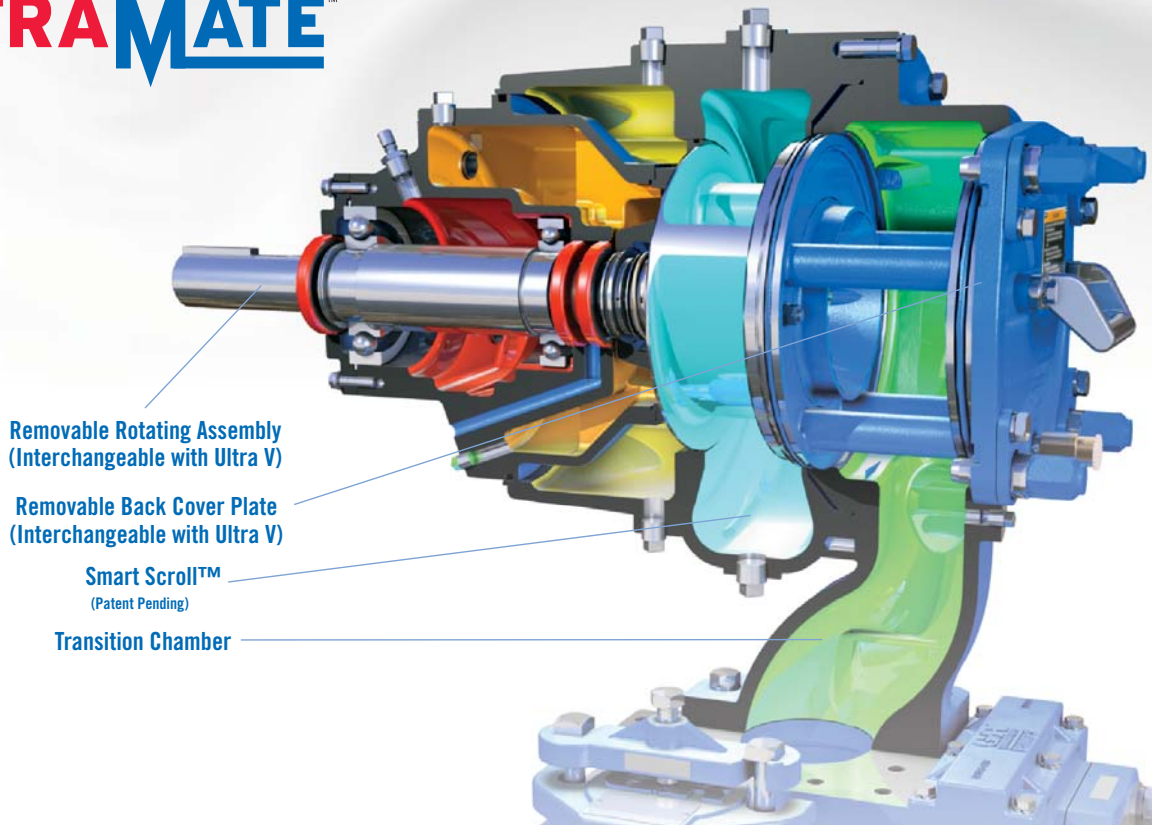


	Suction/Discharge	Maximum Capacity	Maximum Pressure	Maximum Solids
V3	4" (100 mm)	700 gpm	158'	2.5"
	3" (75 mm)	44 lps	48 m	63.5 mm
V3B	4" (100 mm)	850 gpm	110'	3"
	3" (75 mm)	52 lps	32 m	76.2 mm
V4	6" (150 mm)	1150 gpm	158'	3"
	4" (100 mm)	72.5 lps	48 m	76.2 mm
V6	8" (200 mm)	1900 gpm	168'	3"
	6" (150 mm)	123 lps	51 m	76.2 mm

Materials of Construction

Cast Iron, Stainless Steel fitted, CD4MCu fitted, G-R Hard Iron fitted

ULTRAMATE™



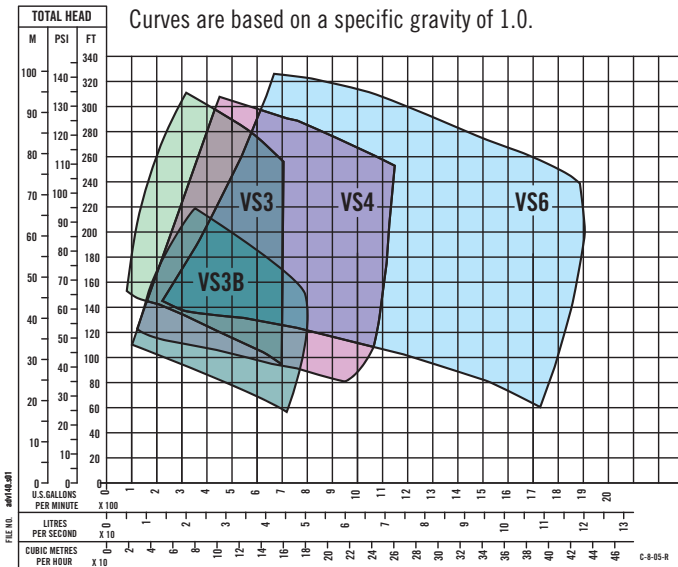
Three Times the Pressure!

The **Ultra Mate**® version can be used when system requirements exceed the **Ultra V Series**® exceptional performance range. By adding the **Ultra Mate** unit directly to the **Ultra V** through an innovative transition chamber, maximum pressure is increased up to three times the pressure of traditional solids-handling, self-priming, single stage pumps. Losses associated with conventional series connected pumps are also reduced, resulting in increased efficiencies.



Ultra Mate – Composite of Performance Curves

Curves are based on a specific gravity of 1.0.



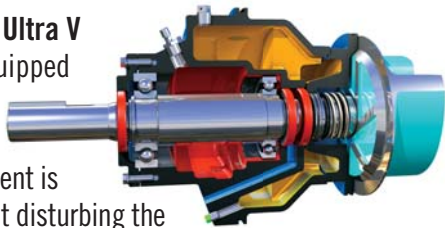
	Suction/Discharge	Maximum Capacity	Maximum Pressure	Maximum Solids
VS3	4" (100 mm)	700 gpm	315'	2.5"
	3" (75 mm)	44 lps	96 m	63.5 mm
VS3B	4" (100 mm)	800 gpm	210'	3"
	3" (75 mm)	50.5 lps	64 m	76.2 mm
VS4	6" (150 mm)	1150 gpm	310'	3"
	4" (100 mm)	72.5 lps	94.5 m	76.2 mm
VS6	8" (200 mm)	1900 gpm	325'	3"
	6" (150 mm)	123 lps	99 m	76.2 mm

Materials of Construction

Cast Iron, Stainless Steel fitted, CD4MCu fitted, G-R Hard Iron fitted

Rotating Assembly

Each Gorman-Rupp **Ultra V Series**® pump is equipped with our easily removable rotating assembly. Replacement is accomplished without disturbing the pump casing or piping, resulting in less downtime. Pusher bolt holes are provided to assist with removal. Additionally, the rotating assemblies are interchangeable between the **Ultra V** and **Ultra Mate**® units.



Solids-Handling Impeller

The heavy-duty, balanced, two-vane, semi-open ductile iron impeller provides maximum life. Pump-out vanes on the back shroud reduce foreign material buildup behind the impeller, minimizing pressure on the seal and maximizing bearing life.



Patented Cartridge Seal

Gorman-Rupp's double-floating, self-aligning, oil-lubricated mechanical seal is specifically designed for abrasive and/or trash-handling applications. The silicon carbide faces and extra large seal oil chamber provide superior dry-run capability. This patented cartridge design allows for accurate and easy installation.



Antirotation Ribs



All **Ultra V Series** pumps come standard with antirotation ribs within the seal chamber area, reducing internal wear, maximizing seal and seal plate life.

Bearing Protection

An innovative atmospheric isolation barrier, along with two lip seals, provides maximum bearing protection. This unique design also provides for external monitoring.



Back Cover Plate

A large back cover plate allows for easy access to the pump interior. Pusher bolt capability assists in the removal of the back cover plate. Additionally, the back cover plates are interchangeable between the **Ultra V** and **Ultra Mate** units.



Replaceable Wearplate

A replaceable wearplate, matched to the cover plate, has Gorman-Rupp's patent-pending, self-cleaning design to ensure debris is cleared away and does not collect on the impeller vanes. This innovative design reduces the overall life cycle costs by minimizing blockage.



Patented External Shimless Adjustment System

The shimless back cover plate adjustment allows for accurate maintenance of the clearance between the impeller and wearplate, without realigning belts, couplings or other drive components.



Once adjustments have been made, the unique lock collar and adjusting screw maintains the clearance setting even if the cover plate is removed. Peak pump efficiency is maintained, while doubling the life of the impeller and wearplate.

The life of the wearplate is maximized with the combination of the shimless back cover adjustment and additional rotating assembly spacers.

Check Valve

A positive sealing, externally removable suction check valve is standard on **Ultra V Series** models, eliminating the need to disconnect any piping for inspection or replacement. The check valve has a blow-out center that limits excessive volute pressure, protecting the pump. A check valve is not provided on **VS Series** pumps.



Accessories Parts and Options

The **Ultra Mate**® unit can be configured with a variety of discharge positions. This Smart Scroll™ feature offers installation flexibility, while reducing the footprint required with conventional staging configurations. In addition, the rotating assembly and the back cover plate are interchangeable between the **Ultra V** and the **Ultra Mate**, reducing spare parts inventory.

Control Options

The performance of any lift station is dependent on the reliability and accuracy of the pump control. If the pump drivers and controls are not matched precisely, the entire lift station is at risk. The Gorman-Rupp team of engineers works closely throughout the development of each lift station to ensure the entire hydroelectrical system works in harmony to meet the system requirements—accurately and reliably.

Gorman-Rupp’s controls are manufactured with the highest quality components designed to control the operation of your Gorman-Rupp lift station and are available UL and CSA listed. They are incredibly accurate, reliable and simple to operate. They are integrated into any Gorman-Rupp lift station. Gorman-Rupp has an engineered pumping solution to meet your lift station needs.



Gorman-Rupp Soft Start Controls

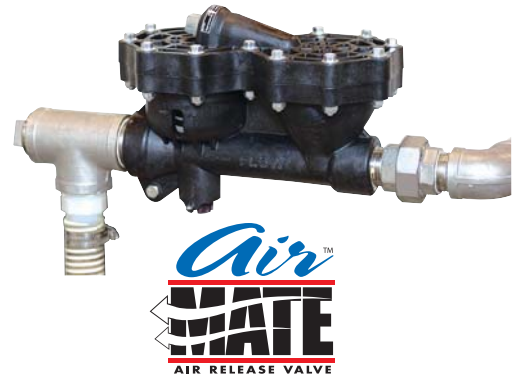
Higher pressures of the **Ultra V** and greater horsepower ranges may require soft starter with pump control.

The soft start control matches the starting and stopping torque required by the pump, helping mitigate hydraulic shock, adding efficiency to the overall performance of the lift station.



Smart Scroll™ Discharge Locator (patent pending)

The Smart Scroll can be rotated to fit your specific piping system. It can be ordered in vertical or horizontal facing, left or right positions.



Automatic Air Release Valve

The Air Mate™ Automatic Air Release Valve is designed to release air from a self-priming pump while it is priming. After the pump primes and begins to deliver liquid, the valve closes to restrict bypass flow. When the pump stops, the valve automatically opens and is ready for the next priming cycle.

We've invested our time and money to ensure that a complete inventory of Gorman-Rupp OEM pumps and parts is always in stock. When you place an order for one of our more than 60,000 parts, we can ship it directly from our inventory, within 24 hours, 97% of the time. That's response at its best!

To order your genuine Gorman-Rupp parts, contact your local distributor.

Locate your Gorman-Rupp distributor online at:

GRpumps.com

Or call the Gorman-Rupp Company at: **419-755-1011**



Ultra V Series® Optional Accessories

- Automatic Air Release Valve
- Discharge Check Valve
- Suction and Discharge Flange Kits
- Volute Casing Heater
- Suction and Discharge Gauge Kit
- Complete Replacement Rotating Assembly
- Pump Spare Parts Kit
- Pump Easy Drain Kit
- Custom Seal Options
- Optional Elastomers and Suction Check Valve Materials (EPDM, Neoprene, AFLAS-TFE, Viton®*)

*Viton® is a registered trademark of Dupont-Dow Elastomers, LLC.

SOLD AND SERVICED THROUGHOUT THE WORLD

Gorman-Rupp has over 1,000 distributors throughout the United States and the world who are qualified to give expert advice on pump selection and application. If you have a service problem, a factory-trained distributor is not far away. They are backed by the fastest parts service in the industry, so you know the parts will be there when you need them.

- ★ Manufacturing Facilities
- Distribution Centers



The Gorman-Rupp Company
Mansfield, Ohio

Mansfield Division
Mansfield, Ohio

The Gorman-Rupp International Company
Mansfield, Ohio

Gorman-Rupp Industries Division
Bellville, Ohio

Patterson Pump Company
Toccoa, Georgia

American Machine and Tool Co., Inc. of Pennsylvania
Royersford, Pennsylvania

Patterson Pump Ireland Limited
County Westmeath, Ireland

Gorman-Rupp of Canada Limited
St. Thomas, Ontario, Canada

Distribution Centers
Sparks, Nevada
Sand Springs, Oklahoma
Leeuwarden, Netherlands
Bangkok, Thailand

Product information is subject to change; consult factory for details.



A TRADITION OF EXCELLENCE

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