

High Performance Self-Priming Centrifugal Trash Pumps



Patent Pending

www.gormanrupp.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.

Gorman-Rupp's commitment to our original philosophy of innovation, continuous improvement, unparalleled quality and customer service continues to set us apart from others.



Superior Performance Self-Priming Centrifugal Trash Pumps

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

- Up to 300% increased pressure
- Up to 40% increased flow
- Greater efficiencies
- Self-cleaning features
- Reduced footprint
- Unique configuration capabilities

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

visit www.gormanrupp.com for additional details

VS Series

Extended Versatility for Enhanced Performance...

Removable Rotating Assembly (Interchangeable with Ultra V)

300% Increased Pressure!

The "**VS**" version can be used when system requirements exceed the **Ultra V Series**' exceptional performance range. By adding the **UltraMate** unit directly to the **Ultra V** through an innovative transition chamber, maximum pressure is increased up to 300% over traditional solids-handling, self-priming, single stage pumps. Losses associated with conventional series-connected pumps are also reduced, resulting in increased efficiencies.

The **UltraMate** unit allows for 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 **UltraMate**, reducing spare parts inventory.

Features

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 **UltraMate** 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.

Anti-Rotation Ribs

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

Patented Bearing Protection

A patented 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 **UltraMate** units.

Replaceable Wearplate

A replaceable wearplate, matched to the cover plate, has Gorman-Rupp's patentpending, 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, eliminating the need to disconnect any piping for inspection or replacement.

The check valve has a blowout center that limits excessive volute pressure, protecting the pump.

Available Models

٧6

VS6

V Series Sizes

	Suction/	Maximum	Maximum	Maximum
	Discharge	Capacity	Head	Solids
٧3	4" (100 mm)	700 gpm	158'	2.5"
	3" (75 mm)	44 lps	48 m	63.5 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

VS Series Sizes

	Suction/	Maximum Canacity	Maximum Head	Maximum Solids
VS3	4" (100 mm)	700 gpm	315'	2.5"
	3" (75 mm)	44 lps	96 m	63.5 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

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