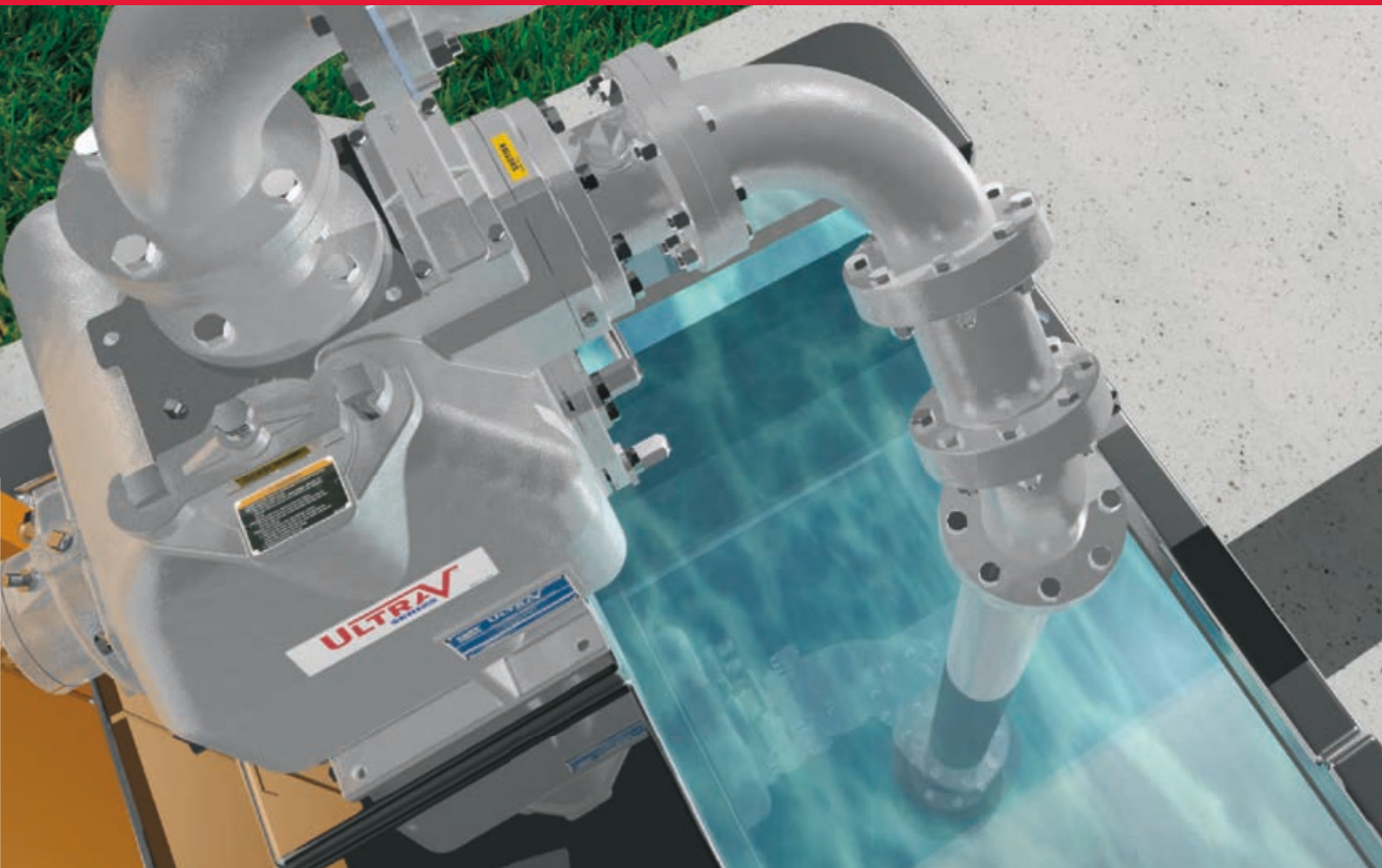


G O R M A N - R U P P P U M P S



Windsor Pump Co.

SELECTION & APPLICATION OF SELF-PRIMING CENTRIFUGAL PUMPS



GRpumps.com



SELF-PRIMING | THE SENSIBLE SOLUTION

CHOOSE FROM A FULL LINE OF SELF-PRIMING CENTRIFUGAL PUMPS

Drive Variations:

- Basic
- V-Belt
- Flexible Coupled
- Engine-Driven

Self-priming pumps are a sensible solution for industrial and municipal applications. They require very little attention, resulting in significant savings of maintenance time and money.

Gorman-Rupp self-priming centrifugal pumps are easy to install and easy to service. Because they're self-priming, they can be mounted high and dry at floor level with only the suction line in the liquid — there's never a need for service personnel to enter the pump. When service or maintenance is required, it can be completed easily with common hand tools. There are no long drive shafts to install and align, and no hoists or cranes are required.

Gorman-Rupp self-priming pumps are available as basic units for connection to your power source or may be flex-coupled, v-belt driven or engine mounted.

Automatic priming means dependable performance.

All that's needed is an initial priming and the pump will continue to reprime automatically. In fact, our trash handling pumps will reprime with only a partially filled pump casing and a completely dry suction line!

Our reputation for quality has made Gorman-Rupp the world's leader in self-priming centrifugal pumps. In addition, it makes us your best solution — meeting all of your industrial or municipal waste handling needs.

Ultra V Series®

*High-Heads
Solids-Handling*



Ultra V Series® self-priming, centrifugal trash pumps handle 200% more pressure and provide 60% increased flow. Self-cleaning features, reduced footprint and unique configuration capabilities allow these pumps to excel in high-head situations where traditional pumps fall short.

Size: 3" (75 mm) to 6" (150 mm)
Max. Capacity: 1900 gpm (123 lps)
Max. Head: 168' (51 m)
Max Solids: 3" (76.2 mm)

Super T Series®

*Solids-Laden Liquids
and Slurries*



Super T Series® pumps feature a large volute design which allow them to reprime automatically in a completely open system without the need for suction or discharge check valves — and they can do it with the pump casing only partially filled with liquid and a completely dry suction line.

Size: 2" (50 mm)* to 10" (250 mm)
Max. Capacity: 3400 gpm (214.5 lps)
Max. Head: 130' (39.6 m)
Max Solids: 3" (76.2 mm)

* 2" available in T Series only

Super U Series®

*High Efficiency
Solids and Corrosive
Liquids*



Super U Series® self-priming pumps are among the most efficient solids-handling, self-priming pumps available (up to 75%). Open, multivane impeller will handle solids up to 1-1/4" (31.8 mm) in diameter.

Size: 3" (75 mm) to 6" (150 mm)
Max. Capacity: 1500 gpm (95 lps)
Max. Head: 207' (63.1 m)
Max. Solids: 1.25" (31.8 mm)

80 Series®

*Limited Solids
and Corrosive
Liquids*



80 Series® self-priming pumps are designed for high-efficiency, nonstop workloads. Straight-in suction design allows them to operate on higher suction levels than standard self-priming centrifugals.

Size: 1.25" (32 mm) to 10" (250 mm)
Max. Capacity: 2800 gpm (177 lps)
Max. Head: 205' (62 m)
Max. Solids: 2.5" (60.3 mm)

10 Series®

*Solids and
Corrosive Liquids*



10 Series® self-priming pumps have only two moving parts — impeller and shaft — so maintenance problems are minimal.

Size: 1.5" (37.5 mm) to 12" (300 mm)
Max. Capacity: 6000 gpm (378.6 lps)
Max. Head: 170' (51.8 m)
Max. Solids: 3" (76.2 mm)

0 Series®

Clear Liquids



0 Series® self-priming pumps feature straight-in suction which eliminates entrance restrictions and provides better suction performance when handling solvents, petroleum products and similar liquids.

Size: 2" (50 mm) to 6" (150 mm)
Max. Capacity: 1350 gpm (85.2 lps)
Max. Head: 400' (121.9 m)
Max. Solids: .688" (17 mm)



1 HOW TO COMPUTE THE TOTAL DYNAMIC HEAD (TDH)

TOTAL DYNAMIC SUCTION LIFT: A + B = C

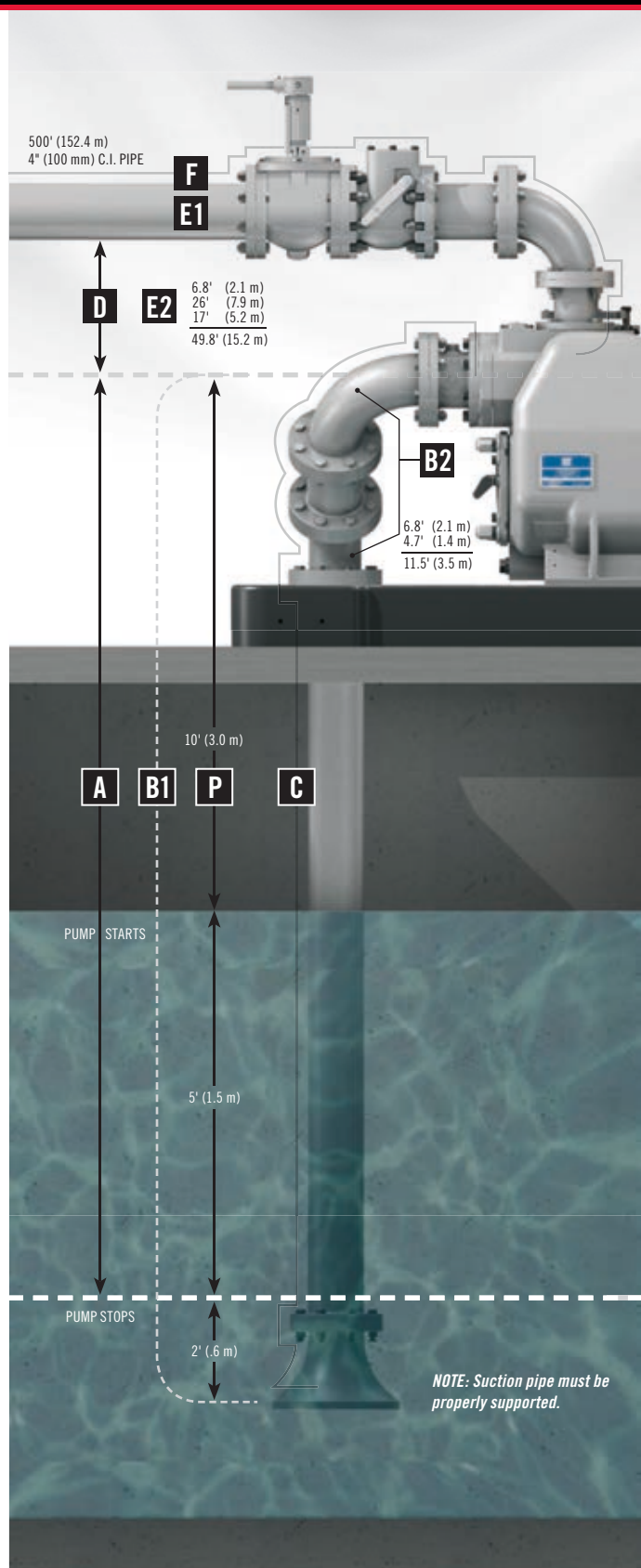
A. Static Suction Lift		15.00' (4.6 m)
B. Friction, Suction (Consult Hydraulic Handbook)		
1. Pipe, Total Length, 4" (100 mm) C.I.	17.00' (5.2 m)	
2. Fittings in Equivalent Length of Pipe		
a. One 90° L.R. Elbow, 4"–6.8' (100 mm–2.1 m)	11.50' (3.5 m)	
b. One 45° Elbow, 4"–4.7' (100 mm–1.4 m)		
3. Total Pipe (Actual & Equivalent)	28.50' (8.7 m)	
4. Total Friction Loss (.285' × 4.43' × .71') (.09 m × 1.4 m × .22 m) (based on friction coefficient C = 100, 4.43/100' and correction factor to C = 120 = .71)		.90' (.27 m)
C. Total Dynamic Suction Lift		15.90' (4.8 m)

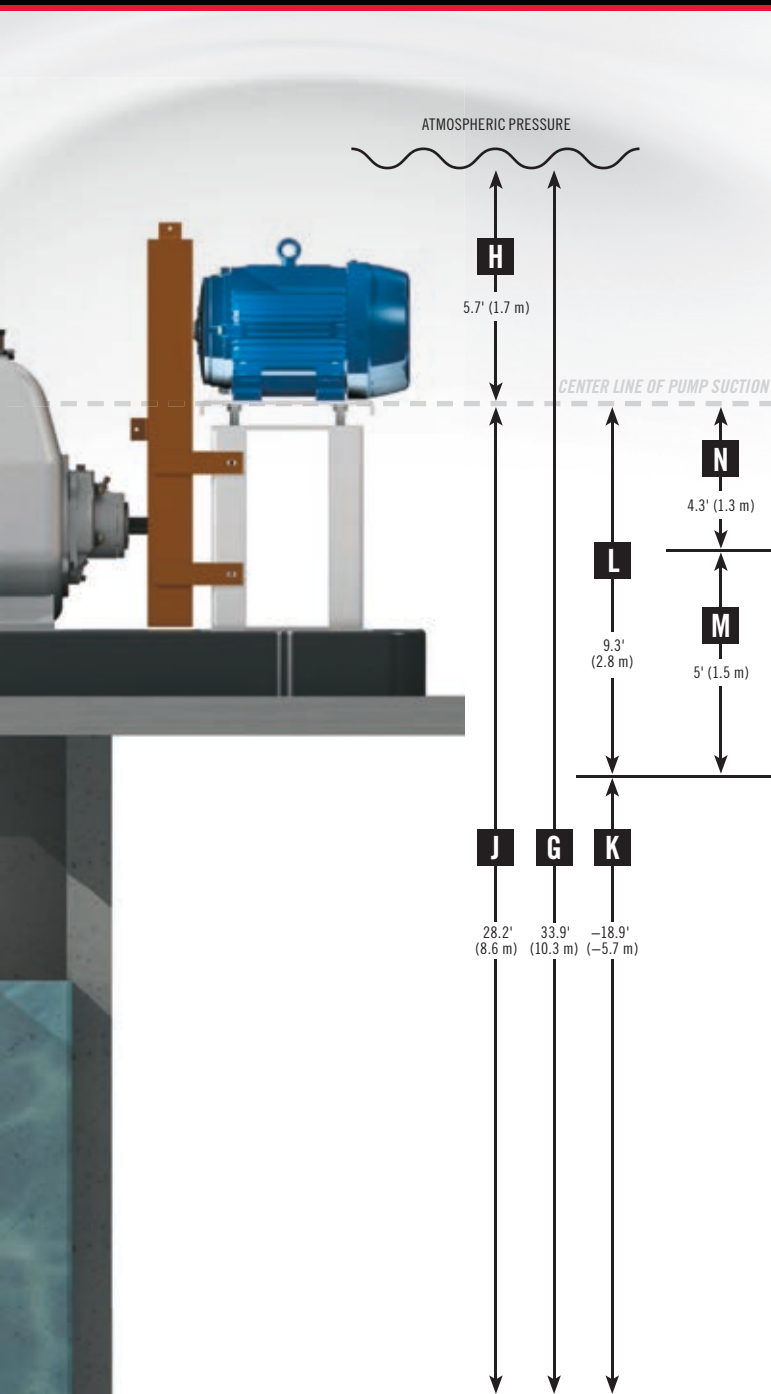
TOTAL DISCHARGE HEAD: D + E = F

D. Static Discharge Head		7.50' (2.3 m)
E. Friction, Discharge or Force Main Line (Consult Hydraulic Handbook)		
1. Pipe, Total Length, 4" (100 mm) C.I.	500.00' (152.4 m)	
2. Fittings in Equivalent Length of Pipe		
a. One 90° L.R. Elbow, 4"–6.8' (100 mm–2.1 m)		
b. One Check Valve, 4"–26' (100 mm–7.9 m)	49.80' (15.2 m)	
c. One Plug Valve, 4"–17' (100 mm–5.2 m)		
3. Total Pipe (Actual & Equivalent)	549.80' (167.6 m)	
4. Total Friction Loss (5.5' × 4.43' × .71') (1.7 m × 1.4 m × .22 m) (based on friction coefficient C = 100, 4.43/100' and correction factor to C = 120 = .71)		17.30' (5.3 m)
F. Total Dynamic Discharge Head		24.80' (7.5 m)

TOTAL DYNAMIC HEAD: C + F = TDH

C. Total Dynamic Suction Lift	15.90' (4.8 m)	
F. Total Dynamic Discharge Head	+24.80' (7.5 m)	
Total Dynamic Head		40.70' (12.4 m)





2 HOW TO COMPUTE THE NET POSITIVE SUCTION HEAD (NPSH)

	Detailed Computation
G. Atmospheric pressure (at sea level)	33.90' (10.3 m)
H. Atmospheric pressure corrected to 5280' (1609 m) [site elevation]	-5.70' (-1.7 m)
J. Atmospheric pressure available at job site (G-H)	28.20' (8.6 m)
Deductions from available atmospheric pressure:	
1. Total dynamic suction lift	15.90' (4.8 m)
2. Vapor pressure 74° liquid	1.00' (.30 m)
3. Safety factor (may vary based on local regulations)	2.00' (.61 m)
K. Total net deductions from available atmospheric pressure (1 + 2 + 3)	-18.90' (-5.7 m)
L. NPSH Available (J - K)	9.30' (2.8 m)
M. NPSH Required (see performance curves)	-5.00' (-1.5 m)
N. NPSH Excess Available, or excess atmospheric pressure (L-M)	4.30' (1.3 m)

NOTE: Items M and N cannot be determined until pumps are selected.

HOW TO DETERMINE THE PRIMING LIFT

P. Priming lift	10.00' (3.0 m)
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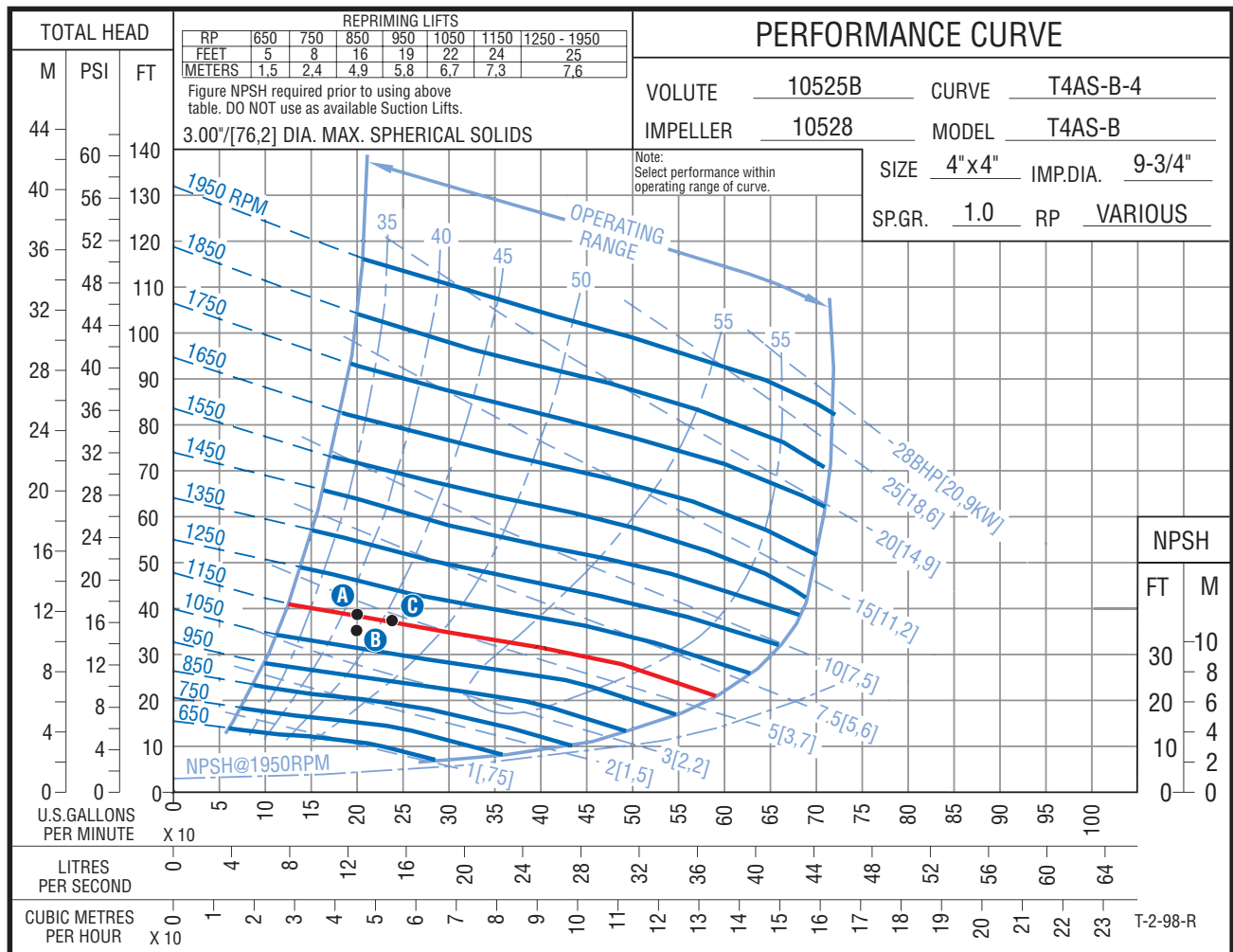
NOTE: Priming lift is measured from the high liquid level to the center line of the pump suction. Priming lift has no relation to net positive suction head.



3 SELECTING THE CORRECT PUMP

After you've made the necessary calculations, you are ready to choose the correct pump for the application.

Capacity	200 gpm (12.6 lps)
Total Dynamic Head (TDH)	40.70' (12.4 m)
Total Dynamic Suction Lift (TDSL)	15.90' (4.8 m)
Priming Lift	10.00' (3.0 m)
Net Positive Suction Head (NPSH) Available	9.30' (2.8 m)
Spherical Solids	3" (76 mm)



The 3" (76 mm) spherical solids requirement suggests a model T4AS-B. A typical Super T curve is shown. A 9-3/4" (250 mm) diameter impeller, turning at 1150 RPM, would be the correct selection. This is a standard motor on 60 cycle frequency. It may be flex-coupled to the pump; however, for versatility, it may be v-belt driven. Note NPSH requirement of 5' (1.5 m) well within the available NPSH of 9.30' (2.8 m). The priming characteristic of the 9-3/4" (250 mm) diameter impeller at 1150 RPM is 24' (7.3 m) (see priming performance data on each curve). We require only 10' (3 m) of priming lift.

CONCLUSION:

Model T4AS-B pump, equipped with a 9-3/4" (250 mm) diameter impeller, turning at 1150 RPM, is the correct selection.



4 SELECTING THE CORRECT MOTOR

Calculating the correct motor size for a pump involves the use of a complicated formula. To make this process easier, many manufacturers add horsepower (or kilowatt) lines to their performance curves. Referring to point **A** on the curve, the closest non-overloading horsepower line represents 5 brake horsepower (BHP) or 3.7kW.

A good rule of thumb to use when selecting motors is to apply a motor which will provide sufficient power to cover the entire length of the selected pump curve (a practice which results in a “non-overloading” motor selection). Using our example, the selected operating speed of the pump is 1150 RPM. The performance of a pump will follow along this speed curve but will vary due to normal pump wear and changes in sump level. The calculation below accounts for the sump level change between the pump on and off levels.



NOTE: Suction pipe must be properly supported.

TDH AT THIS LEVEL 35.70' (10.9 m)

$$\begin{array}{r} 40.70' \text{ (12.4 m)} \\ -5.00' \text{ (-1.5 m)} \\ \hline 35.70' \text{ (10.9 m)} \end{array}$$

or: 36' (11.0 m) TDH at point **B** on curve.

TDH AT THIS LEVEL 40.70' (12.4 m)

See **A** on curve.

The change shown above is basically a change in static head. The actual performance of the pump is illustrated on the curve where the 1150 RPM curve and hydraulic system curve intersects (this is noted on the curve as point **C**). The difference in flow rate between points **A** and **C** is the band our selected pump will operate within from the beginning to the end of the pumping cycle.

Taking all this information into consideration, the best course of action is to select a 7½ HP (5.6kW) motor to ensure non-overloading operation throughout the pump's operating range.



PUMP SELECTION

To assist with the selection of self-priming pumps, we have created the following hypothetical example. We believe the problem and its solution to be typical of a job that might confront engineers and users.

We shall assume there is a requirement for a wastewater collection system that will require a lift station to pump the wastewater to a pretreatment collection system.

The following data were acquired by actual accurate measurements.

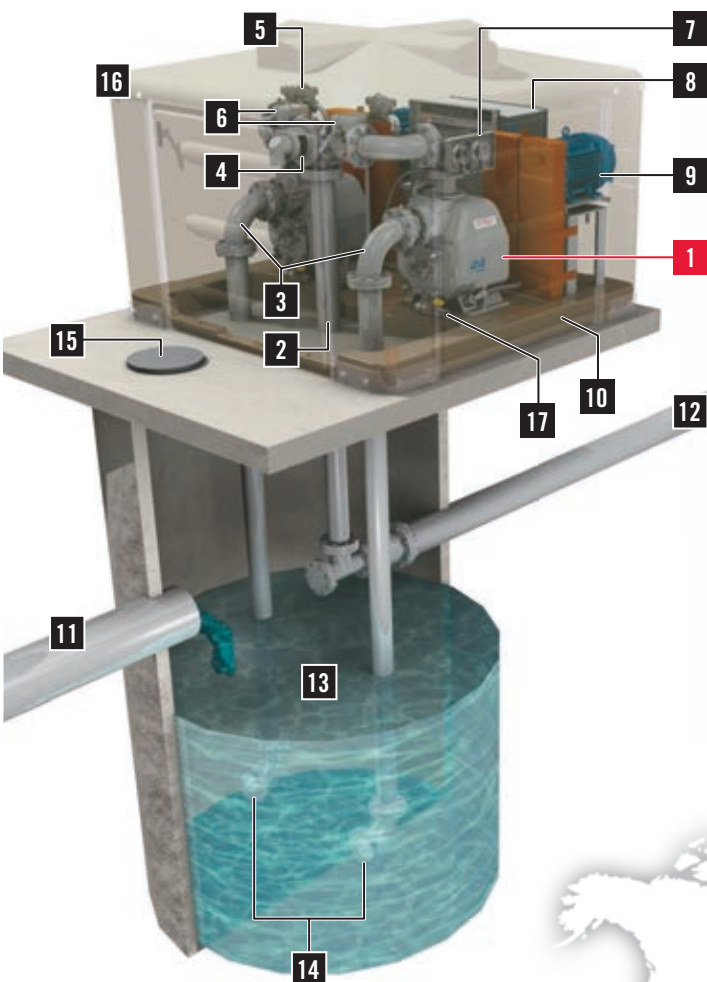
SYSTEM REQUIREMENTS

- Flow:** 200 gpm (12.6 lps)
- Solids:** 3" (76 mm)
- Configuration:** Duplex, one pump for standby
- Site Elevation:** 5280' (1609.3 m) above sea level

SYSTEM CONDITIONS

- Static Suction Lift**
15' (4.6 m) vertical distance from low liquid level to center line of pump suction.
- Suction Pipe**
17' (5.2 m), 4" (100 mm) C.I. pipe. Measured from end of suction pipe to pump suction.
90° L.R. elbow and 45° elbow equivalent to 11.5' (3.5 m) of 4" (100 mm) C.I. pipe (for friction loss calculation).
- Static Discharge Head**
7.5' (2.3 m) vertical distance from center line of pump suction to invert of discharge outlet.
- Discharge Pipe**
500' (152.4 m), 4" (100 mm) C.I. pipe. Measured from pump discharge outlet.
90° L.R. discharge elbow, check valve and gate valve equivalent to 49.8' (15.2 m) of 4" (100 mm) C.I. pipe (for friction loss calculation).
- Priming Lift**
10' (3.0 m) measured from high liquid level to center line of pump suction.

The accumulation of the preceding data now permits calculating the Total Dynamic Suction Lift (TDSL), Total Discharge Head (TDH), and Net Positive Suction Head (NPSH) using the worksheets on the following pages.



Although the pump is the heart of a pumping station, other elements should be considered when designing a system. This example identifies some of the items that can make up a system.

- | | |
|--|---|
| 1. Pump (2) | 8. Control Panel |
| 2. Discharge Pipe | 9. Electric Motor (2) |
| 3. Suction Pipe | 10. Base |
| 4. 3-Way Valve (1) | 11. Inlet Pipe |
| 5. Air Release Valve (2) | 12. Discharge/Force Main |
| 6. Discharge Check Valve (2) | 13. Sump/Wet Well |
| 7. Gauge Kit – Suction and Discharge (2) | 14. Suction Flare
L.R. 90° Bend or
Flange & Flare |
| | 15. Entrance to Sump/Wet Well |
| | 16. Pump Station Enclosure |
| | 17. Pump Drain Kit |

SOLD AND SERVICED THROUGHOUT THE WORLD

Gorman-Rupp has nearly 1,000 distributors worldwide who are qualified to give expert advice on pump selection and application. If you have a service problem, a factory-trained distributor is only a phone call away. Our distributors are backed by the fastest parts service in the industry so your parts will be there when you need them.



Windsor Pump Co.

Head Office

3057 Marentette Ave
Windsor, On N8X 4G1

Phone: 1-(519) 969-2190

Fax: 1-(519) 969-2047

Email: sales@windsorpump.com

Sales and Engineering

Dan Kurtz

Phone: 1-(226) 377-4100

Fax: 1-(905) 847-2425

Email: dan@windsorpump.com

www.windsorpump.com

Peter Kurtz

Phone: 1-(905) 302-3933

Fax: 1-(905) 847-2425

E-mail: peter@windsorpump.com

www.windsorpump.com



Windsor Pump Co.



*80 Series® Heavy-Duty
Self-Priming Centrifugal Pumps*





80 SERIES®

Heavy-Duty Self-Priming Centrifugal Pumps



Gorman-Rupp 80 Series® medium head, mild solids-handling, self-priming centrifugal pumps are designed for non-stop work loads.

The straight-in-suction design of these high efficiency pumps guarantees quick positive priming and allows them to operate at higher

suction levels than most other self-priming centrifugal pumps.

The liquid being pumped enters directly into the eye of the impeller, and a suction check valve prevents in-line return flow when the pump is shut off.

And, because they have few moving parts, 80 Series® pumps are easy to maintain and service, saving money in the long run.

High-Efficiency Impeller

80 Series pumps come equipped with a multi-vane, open impeller for higher efficiencies. Depending on the model, the impeller design will handle up to 2½" solids. These pumps are perfect for mild-solids handling, medium head applications.



Multiple Seal Options

80 Series pumps are standard with mechanical shaft seals. Grease and gland seals are also available depending on the pumping application. Consult factory for details.



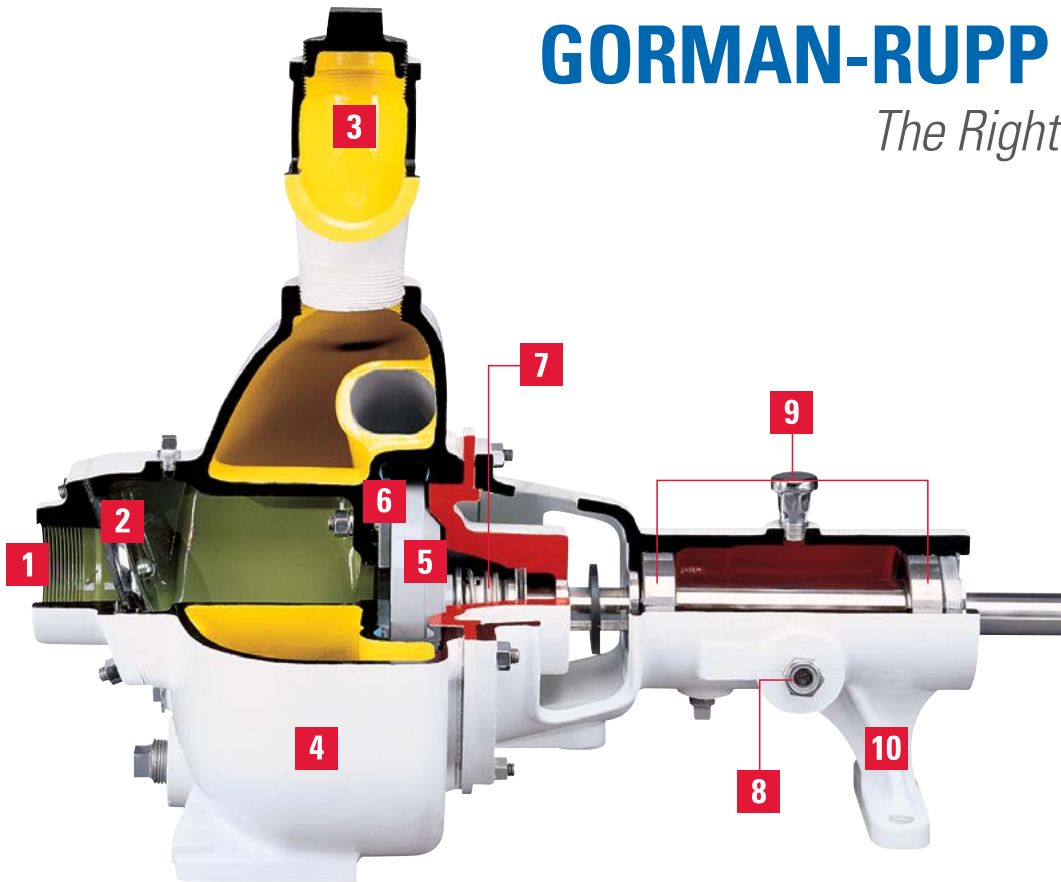
Replaceable Wearplate

The replaceable wearplate is vital in ensuring the pump is operating at peak efficiency around the clock and eliminates the need to replace expensive castings. Wearplates are of extra-thick construction allowing for an extended service life.



GORMAN-RUPP 80 SERIES®

The Right Pump For The Job



- 1-Suction Inlet
- 2-Suction Check Valve
- 3-Discharge Outlet
- 4-Volute
- 5-Balanced Impeller
- 6-Replaceable Wearplate
- 7-Mechanical Shaft Seal
- 8-Bearing Oil Monitor
- 9-Ball Bearings
- 10-Heavy-duty Pedestal

Drive Variations



80 Series®

Basic pump

Size: 1¼" (30 mm) to 10" (250 mm)
 Max Capacity: 2800 GPM (176.7 lps)
 Max Head: 210' (64.0 m)
 Max Solids: 2.5" (63.5 mm)
 Seal Elastomer: Viton®
 Material of Construction: Gray Iron (consult factory for other metals available)



80 Series®

Close-coupled

Shown with explosion-proof motor
 Size: 1¼" (30 mm) to 1½" (38 mm)
 Max Capacity: 91 GPM (5.7 lps)
 Max Head: 72' (21.9 m)
 Seal Elastomer: Viton®
 Material of Construction: Gray Iron



80 Series®

Engine driven

Size: 1¼" (30 mm) to 10" (250 mm)
 Max Capacity: 2800 GPM (176.7 lps)
 Max Head: 210' (64.0 m)
 Max Solids: 2.5" (63.5 mm)
 Seal Elastomer: Viton®
 Material of Construction: Gray Iron (consult factory for other metals available)



80 Series®

Shield-A-Spark portable engine driven

Size: 2" (50 mm) to 3" (75 mm)
 Max Capacity: 395 GPM (24.9 lps)
 Max Head: 140' (42.7 m)
 Seal Elastomer: Viton®
 Material of Construction: Aluminum
 Engines: Gasoline, Diesel

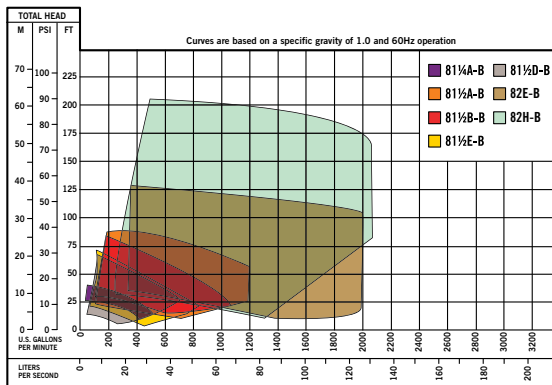


OTS noted models are included in the Gorman-Rupp OTS pump program. These products are available anytime, anywhere.

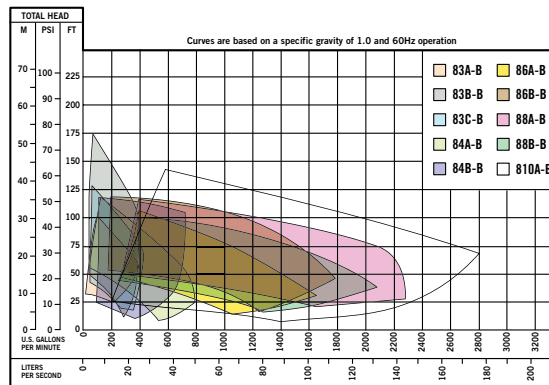
*Viton® is a registered trademark of DuPont Performance Elastomers. All rights reserved.

Pump Performance Data

1¼" to 2" Models



3" to 10" Models





FLUID-HANDLING EQUIPMENT DESIGNED WITH YOUR NEEDS IN MIND



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.



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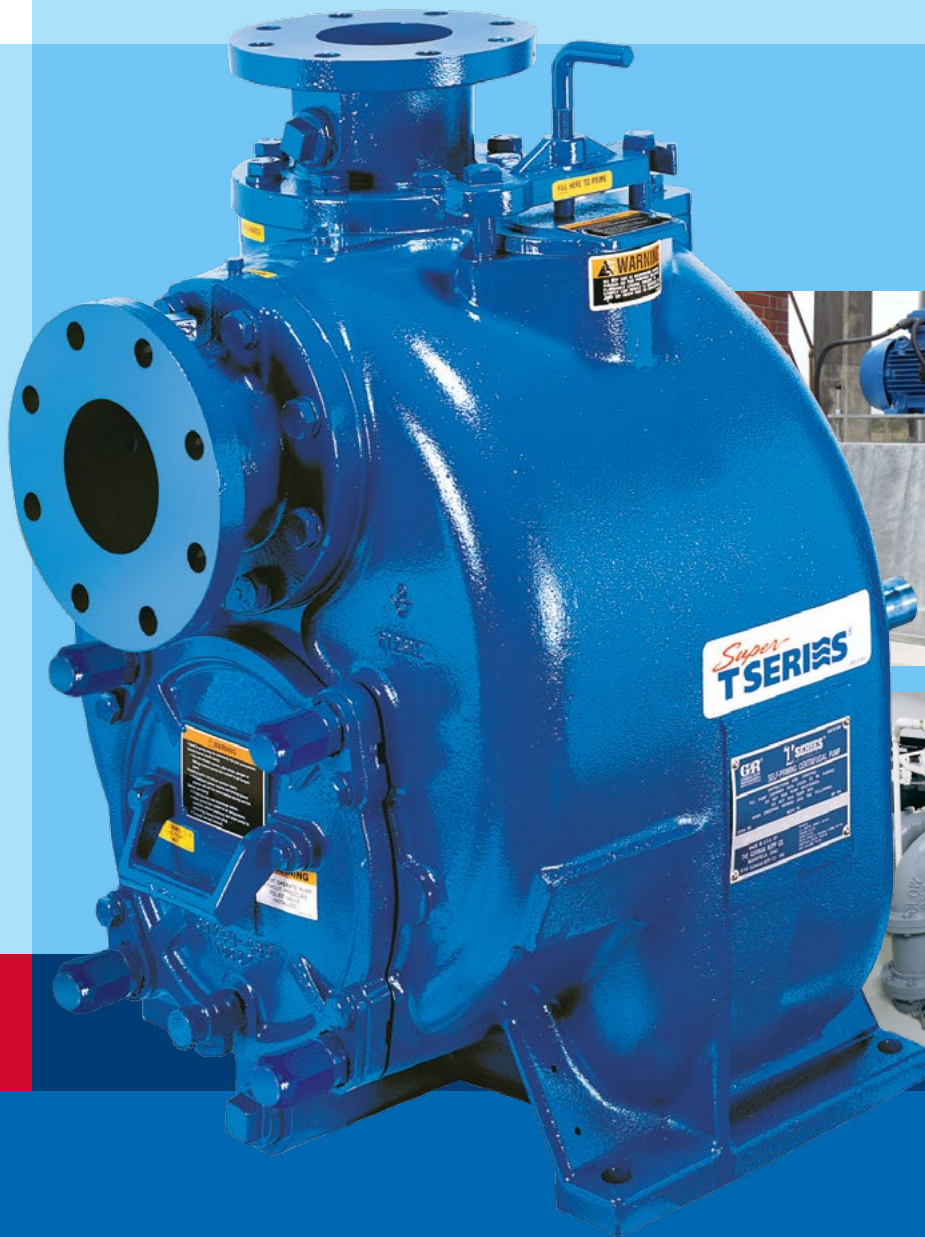
E-mail: peter@windsorpump.com

www.windsorpump.com



Windsor Pump Co.

Super
T SERIES



SUPER T SERIES®

*Self-Priming, Solids-Handling
Trash Pumps*

GR
GORMAN-RUPP
PUMPS

The Pump People®



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.

OUR PUMPS DELIVER 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 Super T Series® pump guarantee long-lasting, trouble-free operation. And we provide a five year warranty and fast parts service to back up our products and ensure your peace of mind.

Value

Super T 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.

Parts And Service

When you need a replacement part for your Super T Series, you'll have it fast. With tens of thousands of genuine Gorman-Rupp parts and pumps at our disposal, we fill and ship 99% of parts orders within 24 hours. Should your Super T Series pump or ReliaSource® pump package 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.

Peace Of Mind

At Gorman-Rupp, we don't just say our pumps are reliable. Unlike standard 90-day or one-year warranties, we guarantee every part and working component of a Super T Series pump for a full five years. With Gorman-Rupp, reliable performance is always guaranteed.



Sound-attenuated, engine-driven models are environmentally engineered to operate much quieter than industry standards.

Deal With Tough Solids Applications

New challenges for solids-handling pumps are presented with the rise of stringy solids such as flushable, nonwoven wipes which are increasingly present in sewage. This, along with other clog-prone solids such as feathers in poultry processing applications, can be dealt with effectively with the Gorman-Rupp Eradicator™ Solids Management System. The system is available for all Super T Series® pumps.

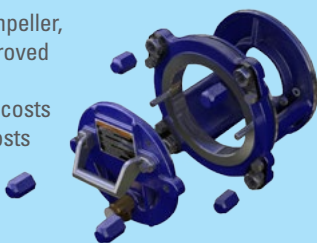
Design Features

The Eradicator system features an aggressive self-cleaning wearplate incorporating a number of notches and grooves, as well as a patent-pending lacerating tooth, that helps break up stringy materials and pass them through the pump without impacting performance or interrupting service. A special back cover includes a patented lightweight inspection cover that can easily be removed if it is necessary to inspect the impeller. The innovative design greatly reduces troublesome clogging and expensive downtime.



System Benefits

Easier access to the impeller, increased uptime, improved operational efficiency, reduced maintenance costs and lower life-cycle costs are major benefits of the Eradicator system. No longer does the entire back cover assembly have to be removed to gain access to the impeller, and Eradicator-equipped pumps do not require expensive chopper blades that need periodic replacement. The system is available in cast iron and G-R Hard Iron configurations and can be factory-equipped in new pumps or purchased as a retrofit kit that is interchangeable with Super T Series pumps currently operating in the field.



The Eradicator™ Solids Management System is available for all sizes of Gorman-Rupp Super T Series® pumps.



SUPER T SERIES®

Self-Priming, Solids-Handling Trash Pumps



Superior Solids-Handling

Designed for economical, trouble-free operation, the superior solids-handling capabilities of the Super T Series® pumps make them ideally suited for a variety of applications including solids-laden liquids and slurries. The large volute design allows automatic repriming in a completely open system without the need for suction or discharge check valves.

Available in discharge sizes of three, four, six, eight and ten inches, this line of self-priming pumps boasts capacities to 3400 gallons per minute (214.5 liters per second) and heads to 148 feet (45 meters). Pumps four inches and larger are engineered to allow up to three-inch diameter spherical solids to pass through any critical area, including the recirculation port.

Super T Series pumps are available in several configurations, including a B version for higher head applications, close-coupled or engine-driven models. All Gorman-Rupp Super T Series pumps are backed by a five-year manufacturer's warranty.

Easy To Maintain

Super T Series pumps are designed with ease of service in mind. Because they are self-priming, they can be mounted above the liquid being pumped. Should service or maintenance be required, it can be easily performed using common hand tools without disconnecting piping. The impeller, seal, wear plate and flap valve can all be accessed through the shimless coverplate opening for inspection or service.*

All Super T Series pumps can be coupled to a standard NEMA motor, which means there's no waiting for special motors.

G-R Hard Iron

G-R Hard Iron is offered as an option for our popular Super T Series pumps and is available for your abrasive applications. For years, Gorman-Rupp has proclaimed the benefits of G-R Hard Iron. This durable material provides superior performance by extending the pump life up to six times over standard cast iron or ductile iron components. G-R Hard Iron has a measured hardness in excess of 400 Bhn (Brinell), providing the best abrasion resistance for nearly all pumping applications.

*Not available on ten-inch models.

Super T SERIES®

- 01 | Fill Port
- 02 | Suction Check Valve
- 03 | O-Ring Seal
- 04 | Replaceable Wearplate
- 05 | Balanced Impeller
- 06 | Oversized Seal Oil Chamber
- 07 | Seal Oil Monitor
- 08 | Removable Rotating Assembly
- 09 | Bearing Oil Monitor
- 10 | Pusher Bolt Capability
- 11 | Optional Casing Heater
- 12 | Double Lip Seals
- 13 | Atmospheric Bearing Isolation
- 14 | Cartridge Mechanical Seal
- 15 | Easy-Off Coverplate Nuts
- 16 | Removable Coverplate
- 17 | Easy-Grip Handle
- 18 | Pressure Relief Valve
- 19 | Pusher Bolt Capability
- 20 | Shimless Coverplate Adjustment

Eradicator™ Solids Management System

21 | Lightweight Inspection Cover

The patented design allows for easy access to the impeller for routine maintenance and clearing blockages.

22 | Aggressive Self-Cleaning Wearplate

Incorporates grooves, notches and tooth to shred stringy materials to further reduce clogging.



All Super T Series® pumps come standard with a five-year warranty.



Specifications

Pump Size: 3" (75 mm), 4" (100 mm), 6" (150 mm), 8" (200 mm), 10" (250 mm)

Max. Capacity: 3400 GPM (214.5 lps)

Max. Solids: 3" (76.2 mm)

Max. Head: 175' (53.3 m)

Materials of Construction: Cast Iron, 316 Stainless Steel Fitted, CD4MCu, G-R Hard Iron Fitted, G-R Hard Iron with Hard Iron Volute



ECONOMICAL OPERATION & EASY TO SERVICE

Gorman-Rupp's patented external shimless adjustment design doubles the life of the impeller and wearplate.

The external shimless coverplate allows for easy adjustment of the clearance between the impeller and the wearplate. This process eliminates the need to realign belts, couplings or other drive components. In turn, the working height of the seal assembly and impeller back clearance are not disturbed. The unique collar and adjusting screw allow for incremental adjustments of the wearplate clearance.

Once adjustments have been made, the collar locks in place, maintaining the clearance setting even if the coverplate is removed. This design feature doubles the life of the impeller and wearplate while maintaining peak operating efficiency.

Easily Removable Coverplate

The removable coverplate with easy-grip handle and pusher bolt capability provides quick and easy access to the pump interior (not available on 10" models).



Solids-Handling Impeller

Two-vane, ductile iron, semi-open solids handling impeller 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 impellers are available in "B" hydraulics models for higher head applications with limited solids. Optional materials include: G-R Hard Iron, 316 Stainless Steel, CD4MCu and High Chrome.



Removable Rotating Assembly

The entire rotating assembly can be removed without disturbing the pump volute or piping. Pusher bolt holes are provided to assist with removal. This allows for quick and easy installation of a spare rotating assembly, resulting in less downtime.



Dual Bearing Protection

An atmospheric barrier along with two lip seals provide additional protection of the pump bearings. This unique design also allows for quick and easy external monitoring of the bearing cavity.



Gorman-Rupp 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.



GORMAN-RUPP SUPER T SERIES®

The Right Pump For The Job

Gorman-Rupp Super T Series® pumps are available in five sizes and multiple drive variations. When space is critical, close-coupling can be used to solve “tight-fit” problems. V-belt configurations offer the advantage of flexibility in speed selection and usually provide maximum operating speed for the required head and capacity without trimming the impeller. Super T Series pumps are also available with diesel or natural gas powered engines, or as part of a packaged pumping station.

Basic Pump



Super T Series®
Size: 3" (75 mm)
Shown with optional flanges



Super T Series®
Size: 4" (100 mm)
Shown with optional flanges



Super T Series®
Size: 6" (150 mm)
Shown with optional flanges



Super T Series®
Size: 8" (200 mm)
Shown with optional flanges



Super T Series®
Size: 10" (250 mm)

Drive Variations



Super T Series®
Close-coupled



Super T Series®
V-belt driven



Super T Series®
Engine driven
Shown with optional wheel kit



Super T Series®
ReliaSource® Packaged
pumping station



Super T Series®
ReliaPrime™ sound-
attenuated back-up system

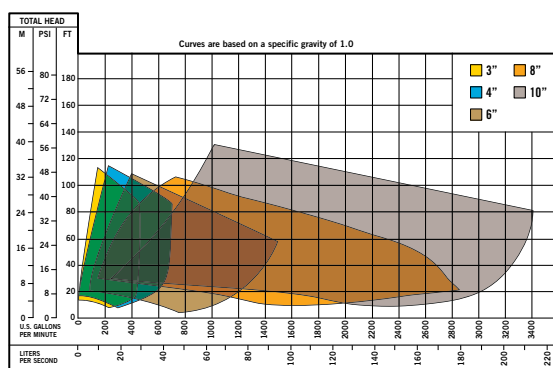
Optional Accessories

- Eradicator™ Solids Management System
- Volute Casing Heater
- Automatic Air Release Valve
- Discharge Check Valve
- Pump High-Temperature Shutdown Kit
- G-R Hard Iron Casings (3", 4" and 6" models)
- High Chrome Impellers (+600 Bhn, limited pump sizes)
- Suction & Discharge Gauge Kits
- Complete Replacement Rotating Assembly
- Pump Spare Parts Kit
- Pump Easy Drain Kit
- Continuous Vane Impeller (10" model only)
- Optional Elastomers and Suction Flap Valve Materials (EPDM, Neoprene, AFLAS-TFE, Viton®*)
- Custom Seal Options including: Flush Kits, Metal Bellows, Double and Chemical Duty Seals, and John Crane Type 9 Mechanical Seals (limited pump sizes)

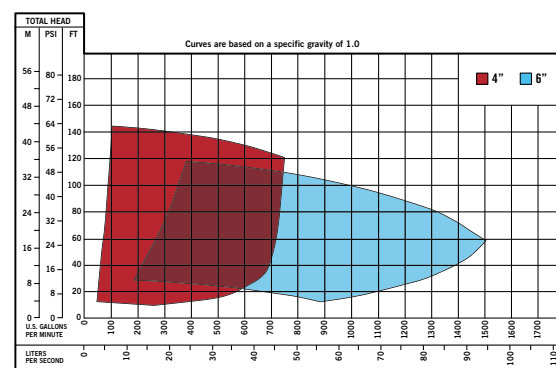
*Viton® is a registered trademark of DuPont Performance Elastomers. All rights reserved.

Pump Performance Data

A Version



B Version – Limited Solids



NOTE: Consult factory for other performance conditions.



FLUID-HANDLING EQUIPMENT DESIGNED WITH YOUR NEEDS IN MIND



★ Manufacturing Facilities

• Distribution Centers

Gorman-Rupp Pumps
Mansfield, Ohio, USA
Gorman-Rupp Canada
St. Thomas, Ontario, Canada

Gorman-Rupp Europe
Culemborg, Netherlands
Gorman-Rupp Africa
Cape Town, South Africa
Durban, South Africa
Johannesburg, South Africa (Headquarters)

Distribution Centers
Bangkok, Thailand
Dubai, United Arab Emirates
Grand Prairie, Texas, USA
Culemborg, Netherlands

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.



Windsor Pump Co.

Head Office

3057 Marentette Ave
Windsor, On N8X 4G1

Phone: 1-(519) 969-2190

Fax: 1-(519) 969-2047

Email: sales@windsorpump.com

Sales and Engineering

Dan Kurtz
Phone: 1-(226) 377-4100

Fax: 1-(905) 847-2425

Email: dan@windsorpump.com

www.windsorpump.com

Peter Kurtz
Phone: 1-(905) 302-3933

Fax: 1-(905) 847-2425

E-mail: peter@windsorpump.com

www.windsorpump.com



Super
U SERIES **S**®

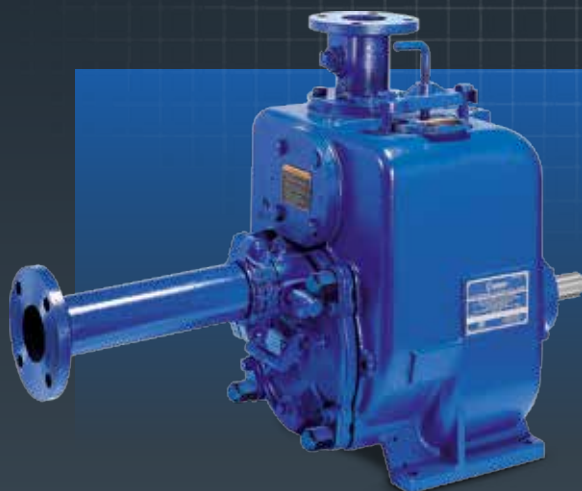
SELF-PRIMING, HIGH-EFFICIENCY PUMPS



GRpumps.com

Super U SERIES®

Super U Series® pumps are available in 3", 4" and 6" discharge sizes. They are capable of handling spherical solids up to 1-1/4" in diameter. There are two different pump design variations to choose from, the "A" or "B" version (depending on installation requirements or performance needs).



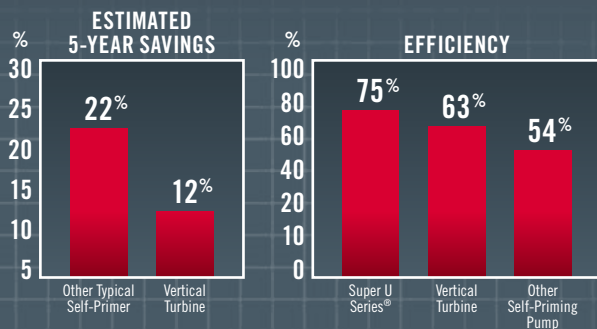
"A" VERSION

Highest Efficiency

The "A" version provides more efficiency than the "B" version because the liquid enters directly into the impeller eye.

Removable Spool Flange

A victaulic collar couples the suction extension to the removable coverplate for easy access to pump interior, should the pump need service.



The 5-year savings generated when you install a Super U Series® high efficiency pump.



"B" VERSION

The "B" version of the Super U Series® is dimensionally interchangeable (suction and discharge dimensions) with Gorman-Rupp Super T Series® pump models. A removable coverplate with easy-grip handle provides quick access to pump interior, should the pump need to be serviced.

DRIVE VARIATIONS

Gorman-Rupp Super U Series® pumps are available as basic units for connection to customers' power or they may be flex-coupled or V-belt driven by an electric motor.

When space is critical, flex-coupling often solves the "tight-fit" problem. V-belt drive offers the advantage of flexibility in speed selection and usually provides maximum operating speed for required head and capacity without the need to trim the impeller. Various belt and sheave configurations are available.

Super **U SERIES**

THE MOST EFFICIENT SELF-PRIMING, SOLIDS-HANDLING PUMPS AVAILABLE

UP TO 75% EFFICIENCY

Super U Series® pumps are the most efficient self-priming, solids-handling pumps available. Their unique volute casing design minimizes friction loss and drag. The multi-vane, open impeller is designed for high efficiency, yet can still handle solids up to 1-1/4" (31 mm) in diameter. Super U Series® pumps not only deliver high efficiencies (up to 75%), they also perform efficiently across a broad operating range. Varying loads, which cause a pump to operate left or right of its best efficiency point on the operating curve, will reduce operating efficiency by only



a very small percentage. The patented external shimless adjustment makes it easy to keep the pump in peak operating condition. Each size pump is available in two different design variations, "A" or "B" versions.

EASY TO SERVICE

Super U Series® pumps are designed with easy service in mind. Because they're self-priming, they can be mounted high and dry above the liquid being pumped. If service or maintenance is required, it's done quickly and easily with common hand tools. No need to "pull the pump" and waste hours or days of valuable man and machine time. Since there are no elongated shafts, a minimum of workspace is required. And, because all Super U Series® pumps can be coupled to a standard NEMA motor, there's no waiting around for special motor parts.



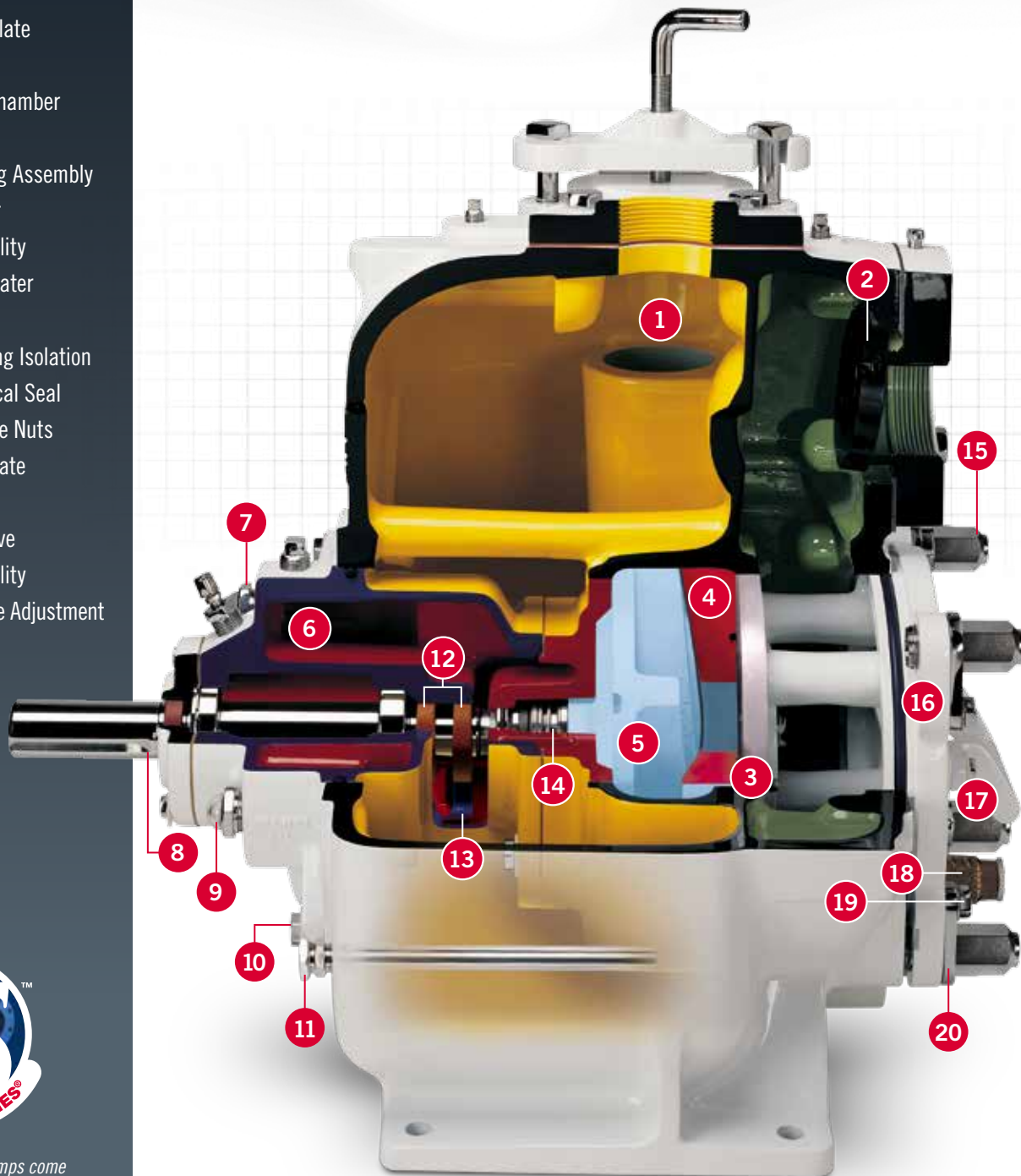
Super U SERIES®

- 1 Handles up to 1-1/4" Solids
- 2 Suction Check Valve*
- 3 Inner O-Ring Seal
- 4 Replaceable Wearplate
- 5 Impeller
- 6 Oversize Seal Oil Chamber
- 7 Seal Oil Monitor
- 8 Removable Rotating Assembly
- 9 Bearing Oil Monitor
- 10 Pusher Bolt Capability
- 11 Optional Casing Heater
- 12 Double Lip Seals
- 13 Atmospheric Bearing Isolation
- 14 Cartridge Mechanical Seal
- 15 Easy-Off Coverplate Nuts
- 16 Removable Coverplate
- 17 Easy-Grip Handle
- 18 Pressure Relief Valve
- 19 Pusher Bolt Capability
- 20 Shimless Coverplate Adjustment

* "B" version only.



All Super U Series® pumps come standard with an industry-leading five-year warranty.



Super U Series® "B" Version Shown

SERVICE AND MAINTENANCE WITHOUT DISCONNECTING PIPING

EASILY REMOVABLE COVERPLATE

If service is required, the removable coverplate with "easy-grip" handle and pusher bolt capability provides quick and easy access to the pump interior without disconnecting piping.* Clogs can be removed and the pump can be returned to service in minutes. Impeller, seal, replaceable wearplate and suction check valve* can also be accessed through the coverplate opening for inspection or service.

**"B" version only.*

PATENTED EXTERNAL SHIMLESS ADJUSTMENT DESIGN DOUBLES THE LIFE OF THE IMPELLER AND WEARPLATE

The external shimless coverplate allows for easy adjustment of the clearance between the impeller and the wearplate. This process eliminates the need to realign belts, couplings or other drive components. In turn, the working height of the seal assembly and impeller back clearance are not disturbed. The unique collar and adjusting screw allow for incremental adjustments of the wearplate clearance with the turn of a hand.

Once adjustments have been made, the collar locks in place, maintaining the clearance setting even if the coverplate is removed.

This design doubles the life of the impeller and wearplate and keeps the pump operating at maximum efficiency.

MULTI-VANE SOLIDS-HANDLING IMPELLER

Multi-vane, open impeller is designed for high efficiency. Constructed of ductile iron, the impeller will handle up to 1-1/4" (31 mm) diameter solids.

GORMAN-RUPP CARTRIDGE SEAL

Exclusive double-floating, self-aligning, oil lubricated mechanical cartridge seal with stationary and rotating face of silicon carbide is specifically designed for rugged, abrasive service. Consult factory for additional seal configurations.



REMOVABLE ROTATING ASSEMBLY

Inspection of pump shaft or bearings is easily accomplished without disturbing pump casing or piping by removing rotating assembly. Simply remove four bolts from the back or front** of the pump and the entire assembly slides out.

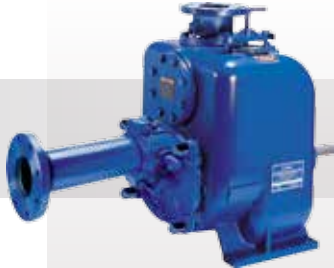


***6" models only.*

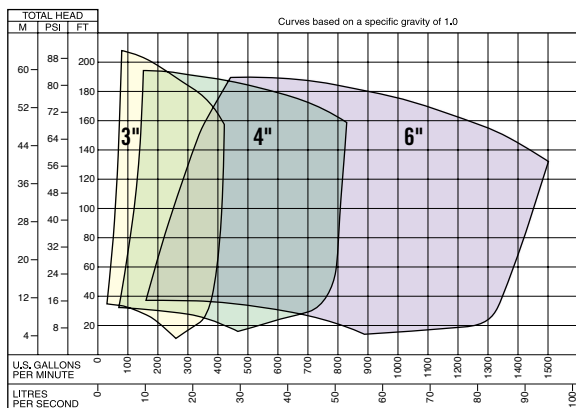
DUAL PROTECTION OF BEARINGS

Atmospheric isolation of seal cavity provides positive protection of the bearings. This unique design also provides capabilities for external monitoring.

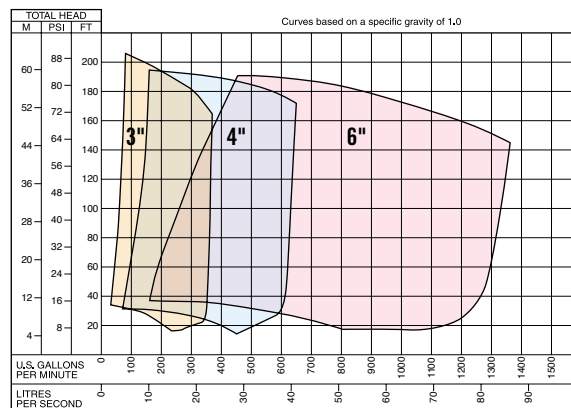


	SIZES	MATERIALS OF CONSTRUCTION	MAX. CAPACITY	Max. Head	Max. Solids
	3", 4", 6" (75 mm, 100 mm, 150 mm)	Cast iron, 316 stainless steel fitted, CD4MCU, G-R Hard Iron fitted	1500 gpm (95 lps)	207' (63 m)	1-1/4" (31 mm)
A VERSION					
B VERSION					
	3" Super U Series® Shown with optional flanges	4" Super U Series® Shown with optional flanges	6" Super U Series® Shown with optional flanges		

"A" VERSION



"B" VERSION



Note: Consult factory for other performance conditions.



Windsor Pump Co.

Head Office

3057 Marentette Ave
Windsor, On N8X 4G1

Phone: 1-(519) 969-2190

Fax: 1-(519) 969-2047

Email: sales@windsorpump.com

Sales and Engineering

Dan Kurtz

Phone: 1-(226) 377-4100

Fax: 1-(905) 847-2425

Email: dan@windsorpump.com

www.windsorpump.com

Peter Kurtz

Phone: 1-(905) 302-3933

Fax: 1-(905) 847-2425

E-mail: peter@windsorpump.com

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Windsor Pump Co.

ULTRA^V
SERIES

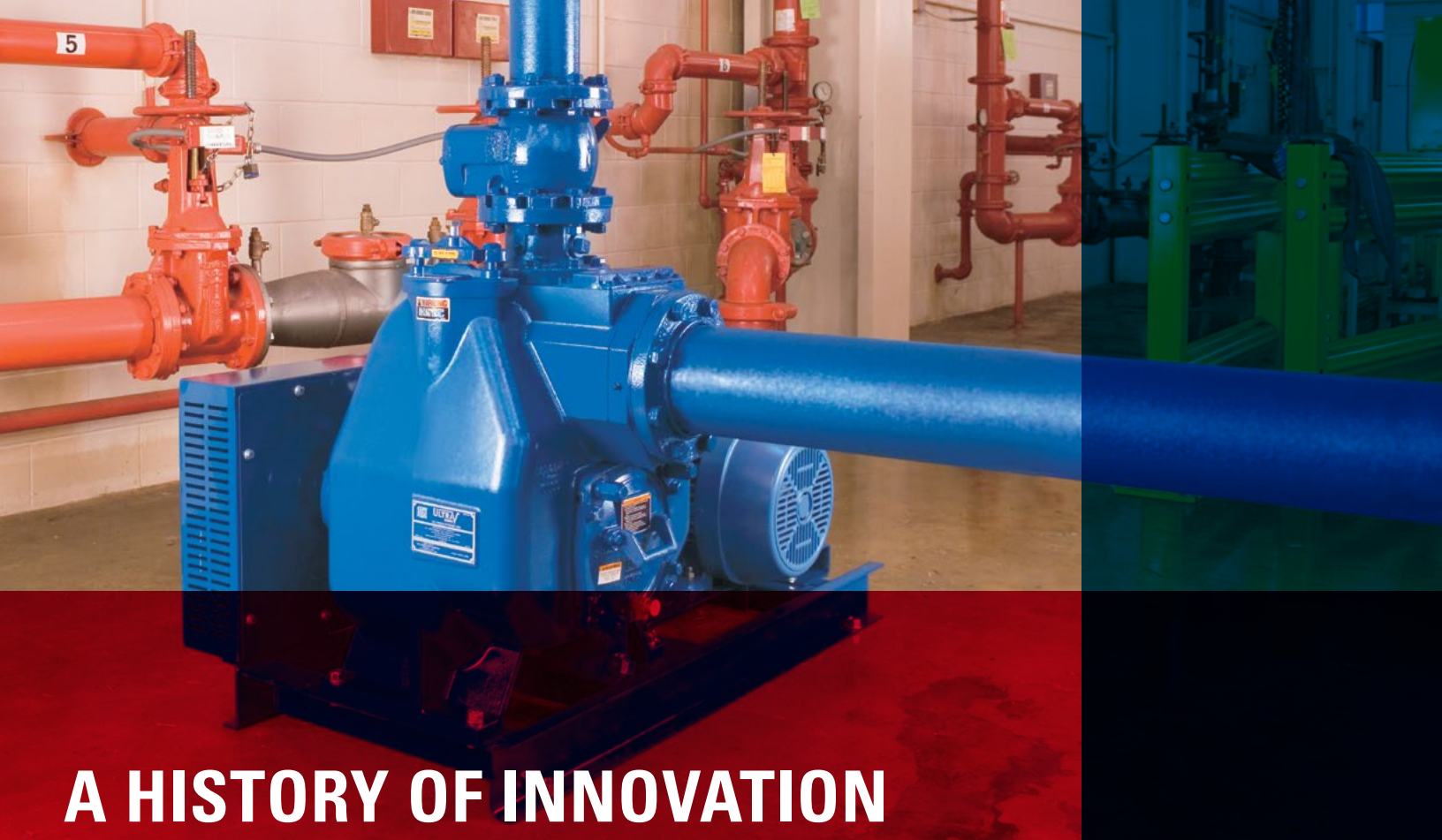


ULTRA V SERIES[®]

*High-Head, High-Performance,
Self-Priming Trash Pumps*

GORMAN-RUPP
PUMPS

The Pump People[®]



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. And, in 2005, Gorman-Rupp introduced the revolutionary Ultra V Series®

which offers industry-leading performance for self-priming applications.

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.

OUR PUMPS DELIVER DECADES OF PERFORMANCE AND VALUE

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

Value

Ultra V 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.

Parts And Service

When you need a replacement part for your Ultra V Series, you'll have it fast. With tens of thousands of genuine Gorman-Rupp parts and pumps at our disposal, we fill and ship 99% of parts orders within 24 hours. Should your Ultra V Series pump or ReliaSource® pump package 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 for your entire lift station, it's easy and convenient to keep your equipment performing as it should.

Peace Of Mind

At Gorman-Rupp, we don't just say our pumps are reliable. Unlike standard 90-day or one-year warranties, we guarantee every part and working component of a Ultra V Series pump for a full five years. With Gorman-Rupp, reliable performance is always guaranteed.



Ultra V Series® pumps are available in a variety of drive variations including basic units, trailer mounted engine-driven units, or as part of an engineered ReliaSource® packaged pump station.

ULTRA V SERIES® & VS SERIES

*High-Head, High Performance Self-Priming,
Solids-Handling Trash Pumps*

Superior 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 flow.

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.

Ultra V Series® Pumps Feature:

- Up to three times the pressure
- Up to 60% increased flow
- Greater efficiencies
- Self-cleaning features
- Reduced footprint
- Externally removable suction check valve
- Unique configuration capabilities
- Improved solids-handling

Three Times The Pressure

The patented UltraMate® can be paired with the Ultra V Series pump when system requirements exceed the Ultra V's exceptional performance range. By adding the UltraMate 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.

ULTRAMATE



Smart Scroll® Discharge Locator

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



ULTRA V[®]

SERIES

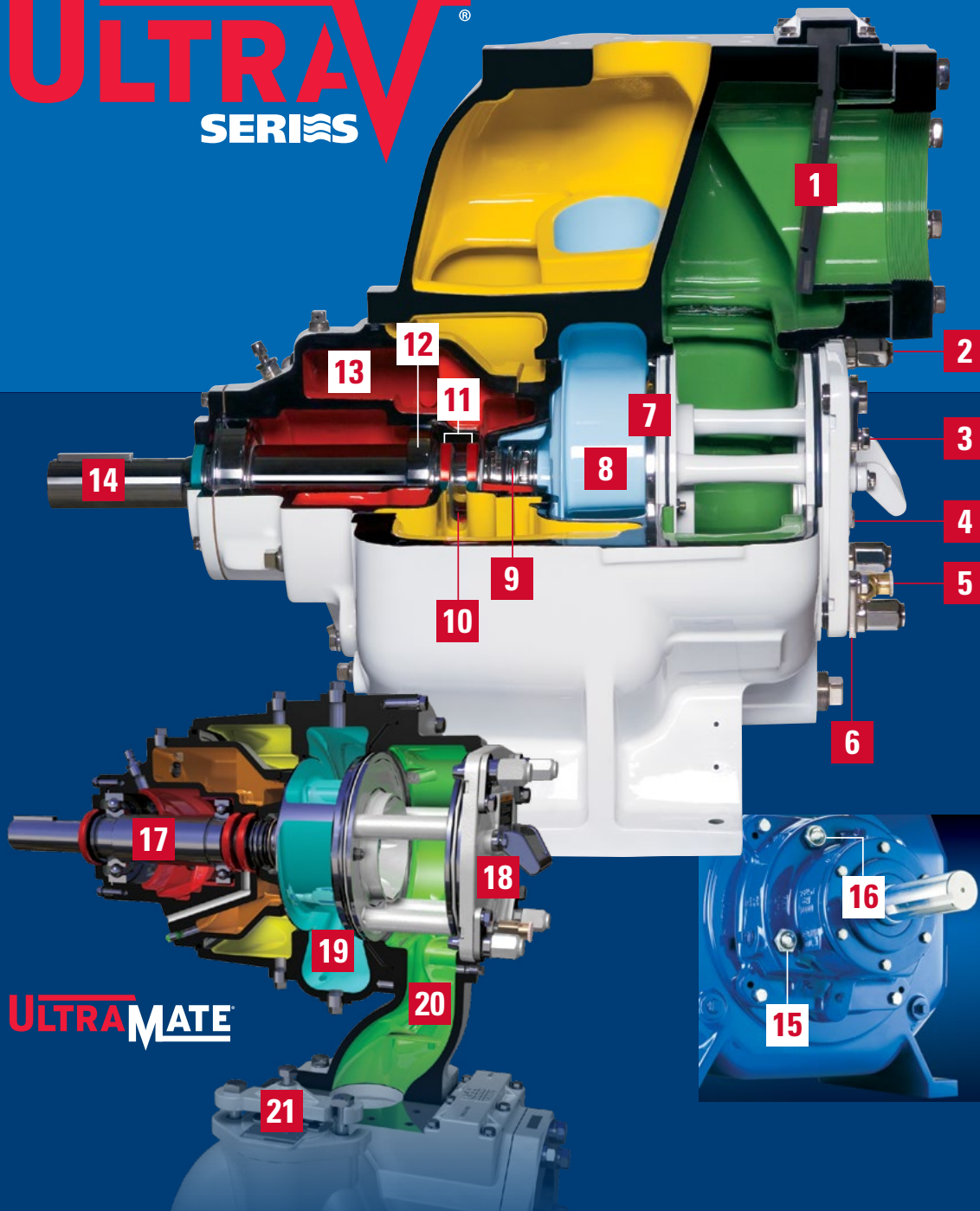
Specifications

Pump Size: 3" (75 mm),
4" (100 mm), 6" (150 mm)
Max. Capacity: 1900 GPM
(119.9 lps)
Max. Solids: 3" (76.2 mm)
Max. Head: 325' (99.1 m)
Materials of Construction:
Cast Iron, 316 Stainless
Steel Fitted, CD4MCu, G-R
Hard Iron Fitted



All Ultra V Series[®] pumps
come standard with a five-
year warranty.

ULTRA MATE



01 | Removable Suction Check Valve

02 | Easy-Off Cover Nuts

03 | Pusher Bolt Holes

04 | Removable Back Coverplate

05 | Pressure Release Valve

06 | Shimless Coverplate Adjustment

07 | Self-Cleaning Replaceable Wearplate

08 | Heavy-Duty Impeller

09 | Cartridge Mechanical Seal

10 | Atmospheric Bearing Isolation

11 | Two Double Lip Seals

12 | Heavy-Duty Bearings

13 | Oversized Seal Oil Chamber

14 | Removable Rotating Assembly

15 | Bearing Oil Sight Gauge

16 | Seal Oil Sight Gauge

17 | Removable Rotating Assembly*

18 | Removable Back Coverplate*

19 | Smart Scroll[®]

20 | Transition Chamber

21 | Fill Port

*Interchangeable with Ultra V Series[®] rotating assembly



ECONOMICAL OPERATION & EASY TO SERVICE

Gorman-Rupp's patented external shimless adjustment design doubles the life of the impeller and wearplate.

The external shimless coverplate allows for easy adjustment of the clearance between the impeller and the wearplate. This process eliminates the need to realign belts, couplings or other drive components. In turn, the working height of the seal assembly and impeller back clearance are not disturbed. The unique collar and adjusting screw allow for incremental adjustments of the wearplate clearance.

Once adjustments have been made, the collar locks in place, maintaining the clearance setting even if the coverplate is removed. This design feature doubles the life of the impeller and wearplate while maintaining peak operating efficiency.

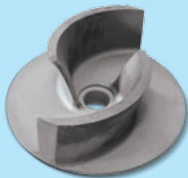
Easily Removable Coverplate

The removable coverplate with easy-grip handle and pusher bolt capability provides quick and easy access to the pump interior.



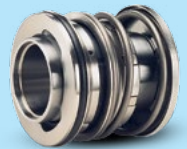
Solids-Handling Impeller

The two-vane, semi-open solids handling impeller 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 the seal and bearings.



Gorman-Rupp Cartridge Seal

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



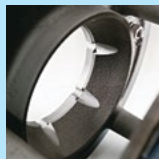
Dual Bearing Protection

An atmospheric barrier along with two lip seals provide additional protection of the pump bearings. This unique design also allows for quick and easy external monitoring of the bearing cavity.



Replaceable Wearplate

A replaceable self-cleaning wearplate ensures debris is cleared away and does not collect on the impeller vanes. This innovative design reduces the overall life cycle costs by minimizing blockage within the pump.



Removable Rotating Assembly

The entire rotating assembly can be removed without disturbing the pump volute or piping. Pusher bolt holes are provided to assist with removal. This allows for quick and easy installation of a spare rotating assembly, resulting in less downtime.

Check Valve

A positive sealing, externally removable suction check valve is standard on Ultra V Series® models. This eliminates 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.



GORMAN-RUPP ULTRA V SERIES®

The Right Pump For The Job

Basic Pumps



Ultra V Series®
Size: 3" (75 mm)



Ultra V Series®
Size: 4" (100 mm)



Ultra V Series®
Size: 6" (150 mm)



VS Series
Size: 3" (75 mm)



VS Series
Size: 4" (100 mm)



VS Series
Size: 6" (150 mm)

Optional Accessories

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

*Viton® is a registered trademark of DuPont Performance Elastomers. All rights reserved.

Drive Variations



Ultra V Series®
Engine driven
Shown with optional wheel kit



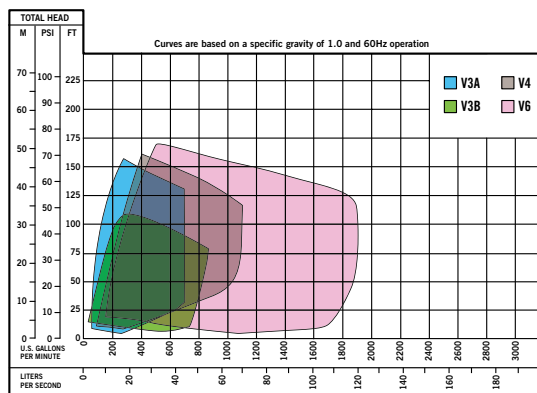
Ultra V Series®
ReliaSource® packaged
pumping stations

Built upon the foundation of the Super T Series®, Gorman-Rupp Ultra V Series® pumps excel in high-head applications where traditional self-priming trash pumps fall short. Available in three sizes, these pumps can be configured as a trailer mounted engine-driven unit or be part of an engineered ReliaSource® pump station that is factory assembled, tested, shipped, and ready for installation.

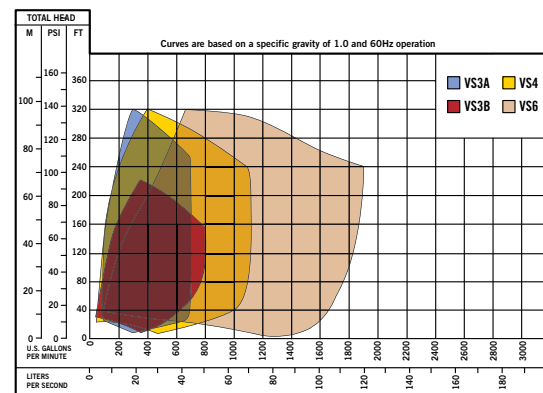
The V3B and VS3B models offer an optional hydraulic design developed to meet three inch solids-handling requirements in a three inch pump.

Pump Performance Data

Ultra V Series®



VS Series



NOTE: Consult factory for other performance conditions.

FLUID-HANDLING EQUIPMENT DESIGNED WITH YOUR NEEDS IN MIND



★ Manufacturing Facilities

• Distribution Centers

Gorman-Rupp Pumps
Mansfield, Ohio, USA
Gorman-Rupp Canada
St. Thomas, Ontario, Canada

Gorman-Rupp Europe
Culemborg, Netherlands
Gorman-Rupp Africa
Cape Town, South Africa
Durban, South Africa
Johannesburg, South Africa (Headquarters)

Distribution Centers
Bangkok, Thailand
Dubai, United Arab Emirates
Grand Prairie, Texas, USA
Culemborg, Netherlands
Sparks, Nevada, 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.



Windsor Pump Co.

Head Office

3057 Marentette Ave
Windsor, On N8X 4G1

Phone: 1-(519) 969-2190

Fax: 1-(519) 969-2047

Email: sales@windsorpump.com

Sales and Engineering

Dan Kurtz
Phone: 1-(226) 377-4100

Fax: 1-(905) 847-2425

Email: dan@windsorpump.com

www.windsorpump.com

Peter Kurtz
Phone: 1-(905) 302-3933

Fax: 1-(905) 847-2425

E-mail: peter@windsorpump.com

www.windsorpump.com

T2 T Series

self-priming centrifugal solids-handling pump

Gorman-Rupp has been manufacturing self-priming pumps since 1933. Over the years, The Gorman-Rupp Company has set the standard with our T Series® and Super T Series® lines of pumps. Many have tried to copy the dependability that these lines provide.

Today, Gorman-Rupp T Series pumps are the world's leading choice for waste handling applications in industries such as steel and paper mills, deep mines, food processing plants, appliance and automotive factories, tanneries and wineries. They are also leaders in sewage handling applications worldwide. That's because Gorman-Rupp offers customers the performance, efficiency and reliability they can count on, day-in and day-out.

The T2 is the latest addition to the T Series family of our self-priming solids-handling pumps. With the same quality features that the T Series are known for, the T2 has additional innovative features that will enhance maintenance, improve performance and increase pump longevity.

Small package but not small in performance...

With maximum heads to 115 ft. (35.1m) and flows to 210 GPM (13.2 l/s), the T2 pump features a volute design that allows it to reprime automatically in a completely open system, without the need for suction or discharge check valves. In fact, it can reprime with the pump casing only partially filled with liquid and a completely dry suction line.

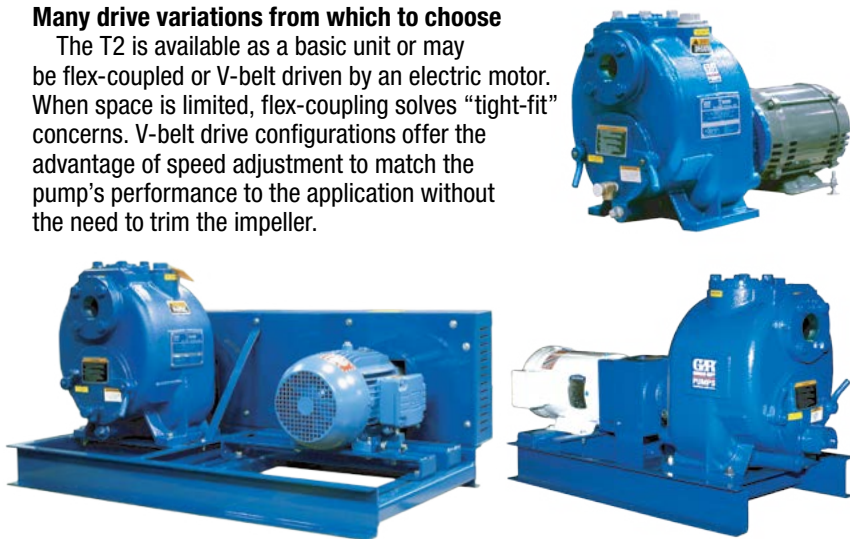
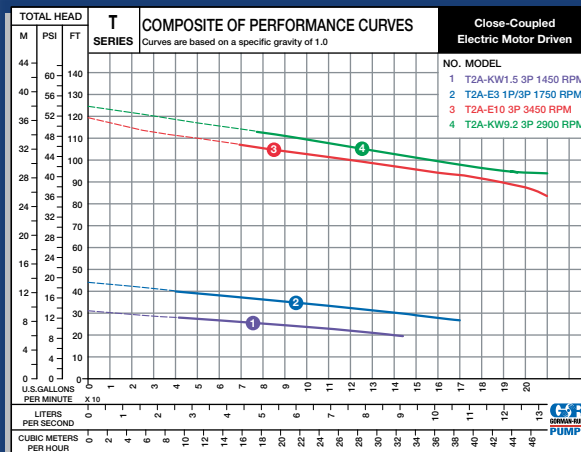
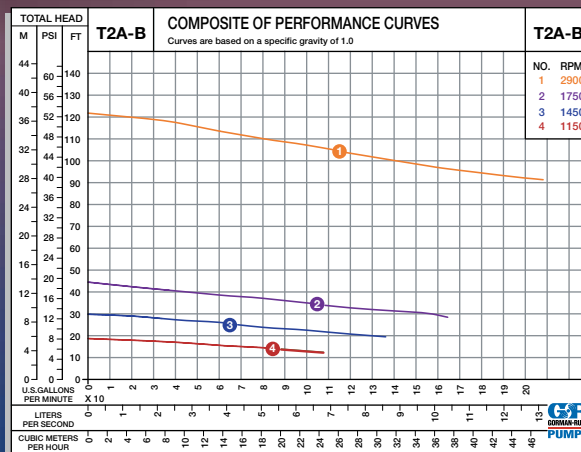
The T2 is standard with a cast iron casing and a two-vane ductile iron open impeller capable of passing 1.5" (38.1mm) spherical solids. 316 stainless steel fitted and G-R hard iron versions are also available. For corrosive and abrasive applications, the T2 can be supplied in an all CD4MCu version. Oil lubricated mechanical seals are available with tungsten titanium carbide or silicon carbide faces.

Simple and compact

T2 is also available in a compact close-coupled version. This configuration is ideal where space is at a premium. Available standard with a 3 hp or 10 hp JM Frame motor, these units will fit into almost any area or can easily be installed as part of an original equipment manufacturer's (OEM) piece of equipment. All close-coupled versions of the T2 come supplied with an open drip-proof (ODP) motor. Other motor styles are available as an option. For 50 Hz international applications, T2 close-coupled models are available with totally enclosed fan-cooled (TEFC) IP55 framed motors.

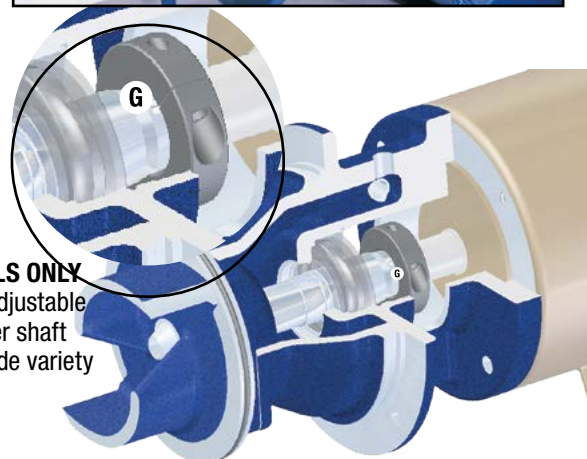
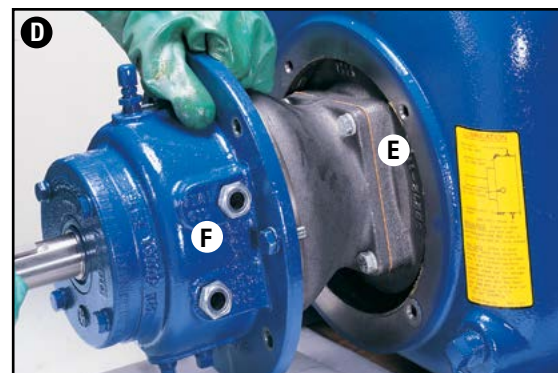
Many drive variations from which to choose

The T2 is available as a basic unit or may be flex-coupled or V-belt driven by an electric motor. When space is limited, flex-coupling solves "tight-fit" concerns. V-belt drive configurations offer the advantage of speed adjustment to match the pump's performance to the application without the need to trim the impeller.





- A Externally Removable Flap Valve:** If maintenance is required, the integral suction flap valve can easily be removed and inspected without the inconvenience of disconnecting the piping or draining the pump casing.
- B Suction and Discharge Connections:** Pump is available with 2" NPT (shown), or optional 2" ASA #125 spool flange or 50mm DIN 2527 spool flanges.
- C Removable Coverplate and Wearplate:** Access pump interior quickly without disconnecting piping. Debris can be removed and pump returned to service in minutes. Impeller, seal and wearplate can also be accessed through coverplate opening for inspection or service. Jacking screw holes are provided.
- D Removable Rotating Assembly:** Inspect or replace shaft or bearings without disturbing pump casing or piping by removing four bolts from the drive end of the pump. This greatly reduces downtime in critical situations. Jacking screw holes are provided.
- E Externally Adjustable Clearance:** The rotating assembly is sealed with an O-ring. External shims between the rotating assembly housing and the pump casing allow for easy shimming to ensure optimum pump performance.
- F Dual Site Gauges:** Individual site gauges are provided for inspecting the oil condition and levels in the bearing and seal cavities.



CLOSE COUPLED MODELS ONLY

- G Locking Collar:** Use of adjustable locking collar with adapter shaft allows for the use of a wide variety of standard drivers.

Complete Packages: As with many of our pumps, T2 pumps can be supplied as part of Gorman-Rupp's packaged pump systems to meet your municipal, industrial wastewater or storm water needs.

The Superior Solution: Our quality reputation has made Gorman-Rupp the world's leader in self-priming centrifugal pumps. And it makes us your best solution—meeting all of your industrial or municipal waste-handling needs. *We Originate...Others Imitate.*



Windsor Pump Co.

Head Office
3057 Marentette Ave
Windsor, On N8X 4G1

Sales and Engineering

Phone: 1-(519) 969-2190

Fax: 1-(519) 969-2047

Email: sales@windsorpump.com

Dan Kurtz
Phone: 1-(226) 377-4100

Fax: 1-(905) 847-2425

Email: dan@windsorpump.com

www.windsorpump.com

Peter Kurtz
Phone: 1-(905) 302-3933

Fax: 1-(905) 847-2425

E-mail: peter@windsorpump.com

www.windsorpump.com