

# SUPER T SERIES®

*Self-Priming, Solids-Handling  
Trash 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 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.



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



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 down in the liquid. If service or maintenance is required it can be completed quickly and easily. There is no need to pull the pump. There are no long drive shafts to install and align. No hoists or cranes are required. And, there is never any need for service personnel to enter the sump.

## **SUPER T SERIES® – SETTING A WHOLE NEW STANDARD IN SOLIDS-HANDLING PERFORMANCE**

*When you specify Gorman-Rupp Super T Series® pumps, you benefit from an experienced staff of engineers dedicated to the design and construction of the most efficient and serviceable pumps in the industry. Our representatives are trained to help you select and apply pumps and related equipment for your specific application.*



# INDUSTRY-LEADING SUPPORT & WARRANTY

*Gorman-Rupp delivers reliable, long-lasting equipment to maximize your ROI and reduce your requirements for service.*

Gorman-Rupp stands behind the quality of our Super T Series® pumps to ensure they meet your requirements for the long haul. To maintain industry-leading client satisfaction well beyond product delivery, we offer a variety of services to meet your needs, including:

## Training

We provide in-depth training seminars for technical and service personnel in our one-of-a-kind training facility. You'll learn about our products, technologies and how to service your equipment.

## Service

Because our equipment is designed for minimum maintenance and ease of service, maintenance is simple and cost-effective to perform in-house, and only minimal resources are required to keep our pumps operating at peak performance.

Our worldwide distribution network is available for service questions and support as well as warranty work. Should you wish to outsource service, our distribution network can provide ongoing service for your pump.

## Fast Parts Service

When you need a replacement part for any of our products, you'll have it fast. With the largest pump and parts inventory in the industry at our disposal, we fill and ship most parts orders within 24 hours.

## Industry-Leading Warranty

Gorman-Rupp stands behind our products with some of the best warranties in the industry. Our manufacturing processes and rigorous testing standards result in a quality product you can rely on in the toughest applications. We have you covered with warranties up to five years. Visit [www.GRpumps.com/warranty](http://www.GRpumps.com/warranty) for specific warranty information.

The Eradicator® Solids Management System is available for all sizes of Gorman-Rupp Super T Series® pumps. Eradicator Plus™ models are available in 3", 4" and 6" sizes.



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



Super T Series® Eradicator Plus™ pumps come standard with a one-year warranty.



# 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 equipped with the Eradicator® Solids Management System 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 2", 3", 4", 6", 8" and 10", 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 higher head, higher efficiency, close-coupled or engine-driven models. Gorman-Rupp Super T Series pumps are backed by a five-year manufacturer's warranty and Eradicator Plus models come standard with a one-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 seal, wear plate and flap valve can all be accessed through the shimless coverplate opening for inspection or service.\* Should a clog occur, the easily removable lightweight inspection cover provides quick access to the impeller without resetting the wearplate to impeller clearance for maximized uptime and increased maintenance efficiency.\*

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.

*\*Available on 2", 3", 4", 6" and 8" pump models.*



When paired with Super T Series® pumps and pump packages, Gorman-Rupp's Ech,oStorm™ venturi aeration system adds dissolved oxygen into a variety of Municipal, Industrial and Agricultural liquids.



# SOLIDS-HANDLING CAPABILITIES

*Advanced solids-handling technology offers a reduction in nuisance clogging.*

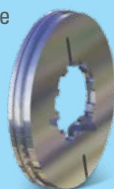


## Deal With Tough Solids Applications

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 revolutionary 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.



The system is available in Cast Iron, G-R Hard Iron and 316 Stainless Steel 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.



## A New Era In Solids-Handling Technology

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. Eradicator Plus, the most aggressive in the Super T Series product lineup, is available in 3", 4" and 6" discharge sizes.



## Heavy-Duty 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 build-up of debris behind the impeller.



## Replaceable 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® and Eradicator Plus™ retrofit kits are available and interchangeable with Super T Series pumps currently in the field.**

# ECONOMICAL OPERATION & EASY TO SERVICE



*Gorman-Rupp's patented lightweight inspection cover provides easy access to the pump interior.*

The removable inspection cover with easy-grip handle allows for access to the impeller without disturbing the impeller and wearplate clearance. If a clog does occur, the simple removal of two nuts with common hand tools provides quick and easy access to the obstruction (not available on 10" models). Upon debris removal, the pump can be returned to operation eliminating costly maintenance and maximizing uptime.

## Externally Shimless Adjustment Design

When wearplate maintenance is required, the patented external shimless coverplate with pusher bolt capability 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 wearplate while maintaining peak operating efficiency.



## Impeller Options

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. Continuous, single-vane impeller comes standard on Eradicator Plus™ pump models for the heaviest-of-duty pumping applications. Multi-vane and slim-line impellers are available in various hydraulics for higher heads and higher efficiencies. Optional materials include: G-R Hard Iron, 316 Stainless Steel, CD4MCu and High Chrome. Consult the factory for the impeller to fit your specific pumping requirements.



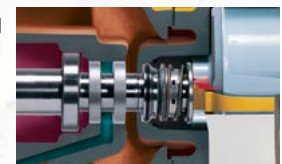
## Removable Rotating Assembly

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 (not available on 2" models).



## 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.





# Super T SERIES®

- 01 | Fill Port
- 02 | Suction Check Valve
- 03 | O-Ring Seal
- 04 | Replaceable Self-Cleaning 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® & Eradicator Plus™ Solids Management Systems

### 21 | Lightweight Inspection Cover\*

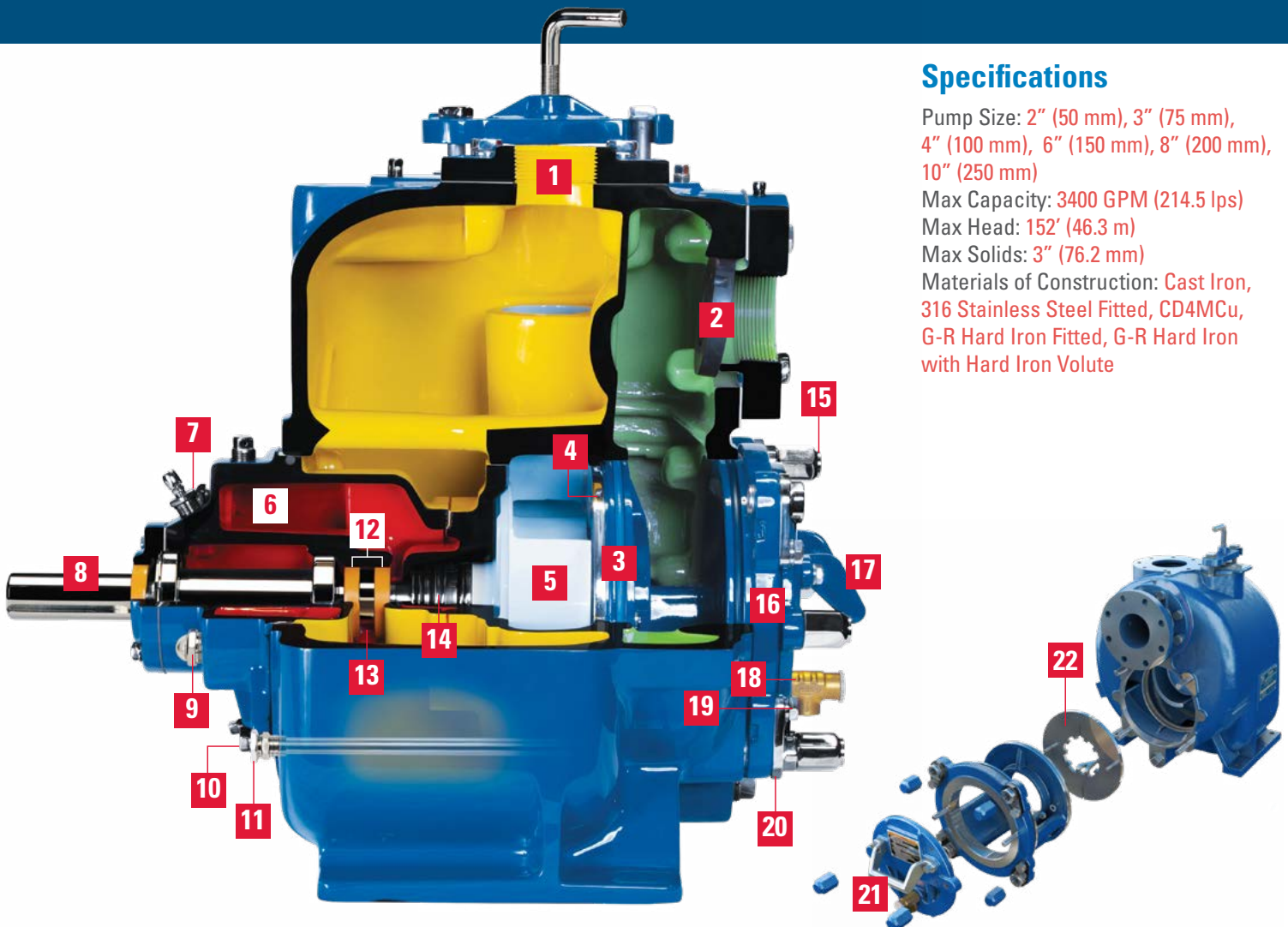
The patented design allows for easy access to the impeller for routine maintenance and clearing blockages.

*\*Standard on 2", 3", 4", 6" and 8" pump models.*

### 22 | Aggressive Self-Cleaning Wearplate

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

*\*Lacerating tooth not available on 2" pump models.*



## Specifications

Pump Size: 2" (50 mm), 3" (75 mm), 4" (100 mm), 6" (150 mm), 8" (200 mm), 10" (250 mm)

Max Capacity: 3400 GPM (214.5 lps)

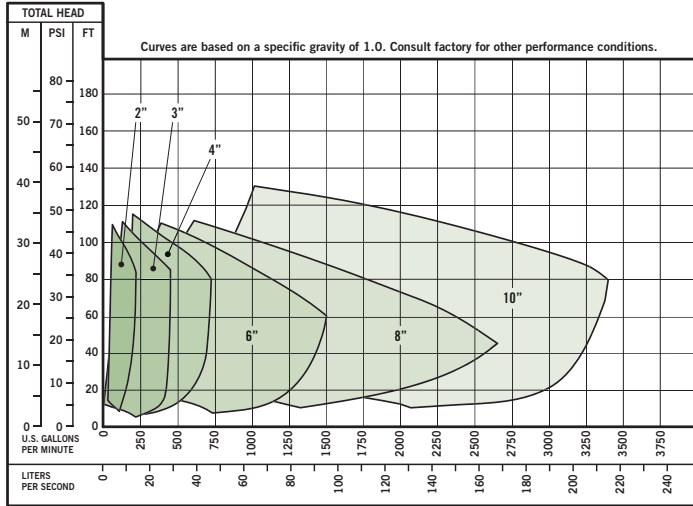
Max Head: 152' (46.3 m)

Max Solids: 3" (76.2 mm)

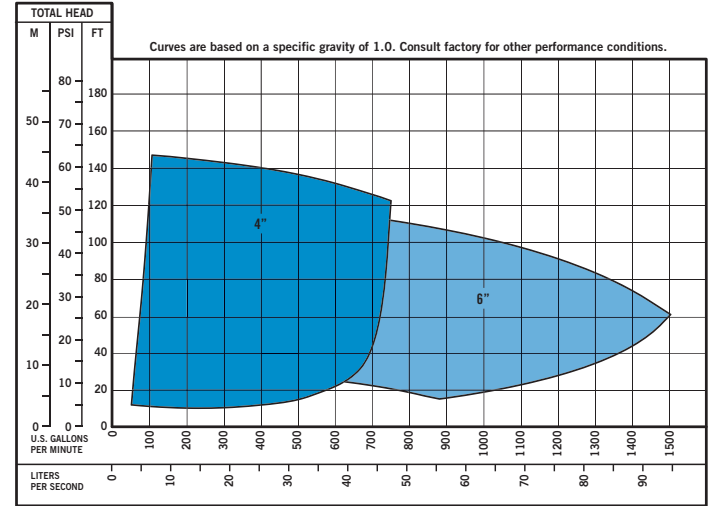
Materials of Construction: Cast Iron, 316 Stainless Steel Fitted, CD4MCu, G-R Hard Iron Fitted, G-R Hard Iron with Hard Iron Volute

# Pump Performance Data

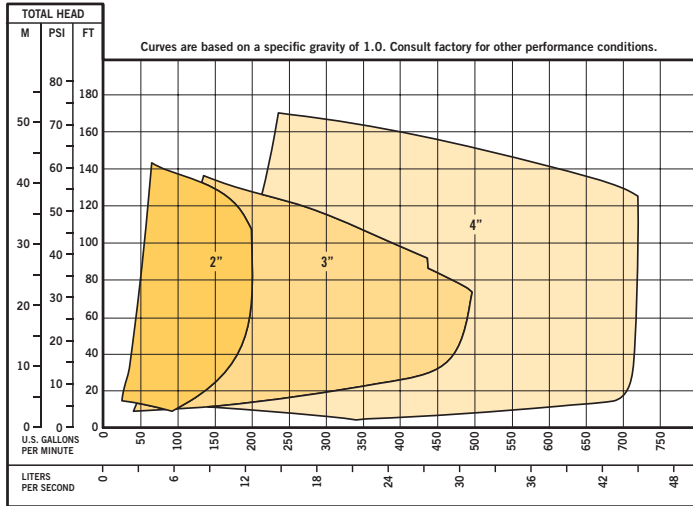
## A/C Version – Solids-Handling Standard & Eradicator®



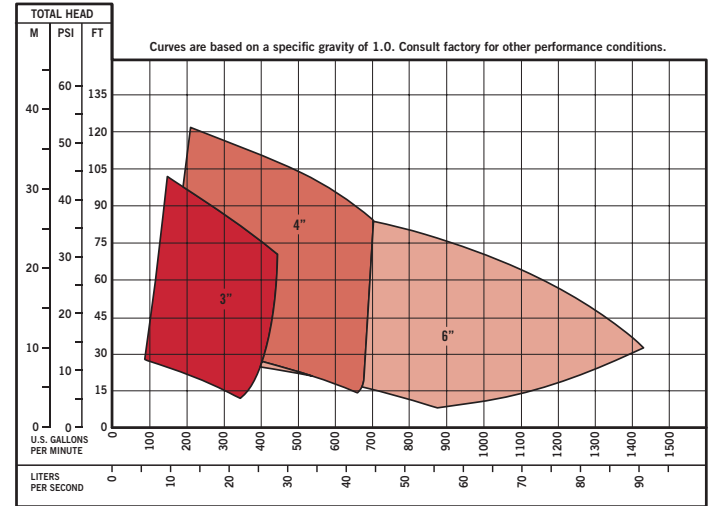
## B Version – Limited Solids



## D/E Version – Limited Solids, High Efficiency



## F Version – Solids-Handling Eradicator Plus™



### OPERATING RANGES

MODEL	SIZE (SUC. X DIS.)	MAX. CAPACITY	MAX. HEAD	MAX. SOLIDS	CONSTRUCTION
<b>SOLIDS-HANDLING</b>					
T3A	3" × 3" (75 mm × 75 mm)	448 GPM (28.3 lps)	112' (34.1 m)	2.5" (63.5 mm)	Cast Iron, CD4MCu, G-R Hard Iron
T4A	4" × 4" (100 mm × 100 mm)	730 GPM (46.1 lps)	116' (35.4 m)	3" (76.2 mm)	Cast Iron, CD4MCu, G-R Hard Iron
T6A	6" × 6" (150 mm × 150 mm)	1480 GPM (93.4 lps)	108' (32.9 m)	3" (76.2 mm)	Cast Iron, CD4MCu, G-R Hard Iron
T8A	8" × 8" (200 mm × 200 mm)	2650 GPM (167.2 lps)	112' (34.1 m)	3" (76.2 mm)	Cast Iron, CD4MCu
T10A	10" × 10" (250 mm × 250 mm)	3400 GPM (214.5 lps)	128' (39.0 m)	3" (76.2 mm)	Cast Iron, CD4MCu
<b>HIGH-HEAD, HIGH-EFFICIENCY</b>					
T4B	4" × 4" (100 mm × 100 mm)	755 GPM (47.6 lps)	146' (44.5 m)	.81" (20.6 mm)	Cast Iron, CD4MCu
T6B	6" × 6" (150 mm × 150 mm)	1510 GPM (95.3 lps)	120' (36.6 m)	1.25" (31.8 mm)	Cast Iron
T2D	2" × 2" (50 mm × 50 mm)	200 GPM (12.6 lps)	142' (43.3 m)	.75" (19.1 mm)	Cast Iron
T3D	3" × 3" (75 mm × 75 mm)	445 GPM (28.1 lps)	130' (39.6 m)	1.5" (38.1 mm)	Cast Iron
T4D	4" × 4" (100 mm × 100 mm)	720 GPM (45.4 lps)	168' (51.2 m)	1.5" (38.1 mm)	Cast Iron
T2E	2" × 2" (50 mm × 50 mm)	200 GPM (12.6 lps)	140' (42.7 m)	.75" (19.1 mm)	Cast Iron
T3E	3" × 3" (75 mm × 75 mm)	495 GPM (31.2 lps)	126' (38.4 m)	1.5" (38.1 mm)	Cast Iron
T4E	4" × 4" (100 mm × 100 mm)	700 GPM (44.2 lps)	166' (50.6 m)	1.5" (38.1 mm)	Cast Iron
<b>ERADICATOR® MODELS</b>					
T2C	2" × 2" (50 mm × 50 mm)	218 GPM (13.8 lps)	110' (33.5 m)	1.5" (38.1 mm)	Cast Iron, CD4MCu
T3C	3" × 3" (75 mm × 75 mm)	448 GPM (28.3 lps)	106' (32.3 m)	2.5" (63.5 mm)	Cast Iron
T4C	4" × 4" (100 mm × 100 mm)	735 GPM (46.4 lps)	112' (34.1 m)	3" (76.2 mm)	Cast Iron
T6C	6" × 6" (150 mm × 150 mm)	1480 GPM (93.4 lps)	110' (33.5 m)	3" (76.2 mm)	Cast Iron
T8C	8" × 8" (200 mm × 200 mm)	2520 GPM (159.0 lps)	106' (32.3 m)	3" (76.2 mm)	Cast Iron
T10C	10" × 10" (250 mm × 250 mm)	3400 GPM (214.5 lps)	132' (40.2 m)	3" (76.2 mm)	Cast Iron
<b>ERADICATOR PLUS™ MODELS</b>					
T3F	3" × 3" (75 mm × 75 mm)	455 GPM (28.7 lps)	102' (31.1 m)	1.75" (44.5 mm)	Cast Iron
T4F	4" × 4" (100 mm × 100 mm)	690 GPM (43.5 lps)	122' (37.2 m)	2.25" (57.2 mm)	Cast Iron
T6F	6" × 6" (150 mm × 150 mm)	1410 GPM (89.0 lps)	98' (29.9 m)	2.25" (57.2 mm)	Cast Iron

# GORMAN-RUPP SUPER T SERIES®

*The Right Pump For The Job*

## Basic Pump



**Super T Series®**  
Size: 2" (50 mm)  
Shown with optional flanges



**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



**Super T Series®**  
Engine driven pump end



**Super T Series®**  
ReliaSource® packaged  
pumping station



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



**Super T Series®**  
Specialty packaged system

## Optional Accessories

- Eradicator®/Eradicator Plus™ Solids Management Systems
- EchoStorm™ Venturi Aeration 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)
- Suction & Discharge Gauge Kits
- High Chrome Impellers (+600 Bhn, limited pump sizes)
- Complete Replacement Rotating Assembly
- Pump Spare Parts Kit
- Pump Drain Kit
- DOT-approved Wheel Kit (engine-driven models only)
- 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)

# FLUID-HANDLING EQUIPMENT DESIGNED WITH YOUR NEEDS IN MIND



## ★ Manufacturing Facilities

### ● Distribution Centers

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 Centers

Dubai, United Arab Emirates  
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.



## GORMAN-RUPP PUMPS

P.O. BOX 1217

MANSFIELD, OHIO 44901-1217 | USA  
TEL: 419.755.1011 | FAX: 419.755.1251

**GRPUMPS.COM**



*The Pump People®*

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