

1GA/2GA 1½" and 2" and 1GA(X)/2GA(X) Grinder Pumps



Wastewater 1-1/2" and 2" Discharge Submersible Grinder Pumps 1GA(X) & 2GA(X)

Applications

High head and pressure sewage systems for: Municipal, Commercial, and Industrial

Features and Benefits

- Design: Capable of grinding municipal, commercial and industrial sewage.
- Cutter System: Designed to reduce sewage to a fine slurry.
- Impeller: Cast iron, semi-open, non-overloading multivane design with pump-out vanes for mechanical seal protection.
- Casing: Cast iron, volute type for high efficiency.
- Adaptable for slide rail system.
- Paint: Two coat paint system for superior surface protection.
- Float Leakage Sensor (FLS): a small internal float switch is used to detect the presence of water in the stator chamber. Standard on all models.
- Leakage Sensor Detector Circuit: The FLS, when activated, will cause the patented 24 volt MiniCAS monitoring relay to signal an alarm and, if desired, stop the pump.
- The MiniCAS 24 volt relay can be ordered separately for installation in a control panel by a UL or CSA certified panel shop or as a built-in option in our control panel.

Literature:

Technical Brochures

- [B1GA2GA R3 1GA\(X\) & 2GA\(X\) 1½" AND 2" DISCHARGE SUBMERSIBLE GRINDER PUMPS](#)

Installation/Operation Manuals

- [IM070 R03 Models 1GA/2GA](#)

Parts Lists

- [RSES R2 Sump, Effluent and Sewage Pump Repair Parts](#)

Specifications

- [1GAX2GAXS Explosion Proof Submersible Grinder Pumps](#)
- [1GA2GAS 1GA/2GA Specifications](#)

Engineering Data

- [A1GA2GA R2 1GA & 2GA 1½" and 2" Discharge Submersible Grinder Pumps](#)
- [Minicawiring – MK and MV Wiring to MiniCAS](#)

Performance Curves

- [C1GA2GA 1GA/2GA SUBMERSIBLE GRINDER PUMPS](#)

Drawings

- [D1GA2GA 1½" and 2" Discharge Submersible Grinder Pumps](#)

1GD Dual Seal Submersible Grinder Pumps



Applications

- Designed for high head sewage applications where a gravity system is not practical
- Ideal for pressure sewage systems

Features and Benefits

- Silicon bronze, multi-vane semi-open impeller with pump-out vanes for mechanical seal protection
- Heavy duty cast iron, volute type casing for maximum efficiency
- Dual Mechanical Seals
- Optional Seal Sensor Cord located in oil-filled chamber
- Stainless Steel Shaft and Fasteners

Literature:

Technical Brochures

- [B1GD SUBMERSIBLE GRINDER PUMP DUAL SEAL WITH OPTIONAL SEAL SENSOR PROBE](#)
- [B1GDZ 1GDZ Submersible Grinder Pump Dual Seal with Optional Seal Sensor Probe 50 HZ](#)

Installation/Operation Manuals

- [IM174 R00 Instructions for changing a grinder pump cutter / cutter ring](#)
- [IM039 R04 Grinder Pumps 10 and 30 1¼" Discharge](#)

Parts Lists

- [RSES R2 Sump, Effluent and Sewage Pump Repair Parts](#)

Specifications

- [1GDSPC50HZ 50HZ 1GD Submersible Grinder Pumps](#)
- [1GDSPEC Model 1GD](#)

Performance Curves

- [C1GD 1](#)

Drawings

- [TID TYPICAL INSTALLATION DRAWING Simplex Submersible Sewage Pump](#)

GPGS Goulds Packaged Grinder System



Designed for high head sewage applications where a gravity system is not practical

Ideal for Pressure Sewage Systems

A complete simplex or duplex installation consists of a simplex or duplex pump kit AND a simplex or duplex basin kit. Choose the simplex or duplex basin kit from the chart on the following pages to best suit your installation needs and make sure it is included in your order.

Both pump/control kit and basin kit must be ordered for a complete installation.

Features and Benefits

Single Mechanical Seal – Silicon Carbide Rotary & Stationary

Literature:

Technical Brochures

- [BPGS R1 RGS Grinder Packages](#)

Installation/Operation Manuals

- [IM038 R05 Single Phase Single Seal Grinder Pump](#)

Retrofit Kit



The Retrofit Kit is a grinder pump retrofit kit designed for residential grinder pump systems. It is retrofit-able with all Environment One installed grinder pump stations. It installs easily, and includes all piping and electrical connections. Built with a centrifugal grinder pump featuring heavy duty design with a silicon carbide hard faced mechanical seal, the Retrofit Kit can easily process the material found in wastewater and has a long life expectancy. The Retrofit Kit replaces the entire core of the failed grinder pump station and allows for maximum strength using a centrifugal pump.

Features and Benefits

Drop In: Retrofit-able with installed Environment One stations that have failed pump units aka “cores”.

Direct connection to existing station piping connection.

Direct connection to existing station wiring harness.

No Additional Junction Box Required: All electrical conditions internally wired at factory.

Power and Alarm Cable: Electrical connection plug installed at factory.

Piping: Stainless Steel piping

Check / Anti Siphon valve built in

Floats for on/off and alarm built in and pre wired

Capable of grinding domestic sewage in individual residential applications.

Cutter System: Anti-roping design. Two blade rotary cutter is threaded to shaft. Stationary cutter ring is reversible for extended service.

Impeller: Silicon bronze, semi-open, two-vane design with pump-out vanes for mechanical seal protection. Balanced for smooth operation.

Casing: Cast iron, volute type for high efficiency.

Motor: Fully submerged in oil-filled chamber. High grade turbine oil surrounds motor for more efficient heat dissipation, permanent lubrication of bearings and mechanical seal, and protection against outside environment.

Motor Shaft: 300 series stainless steel, short overhang for minimum shaft deflection. Designed for Continuous Operation.

Bearings: Upper and lower ball bearings for precision positioning of parts and to carry all radial and thrust loads.

Mechanical Seal: Hard faced Silicon Carbide for longer life, stainless steel metal parts, BUNA-N elastomers.

Literature:

Brochures

- [Retrofit Kit RGS2012E1S / RGS2012E1E](#)

Technical Brochures

- [BRETRO R1 RGS2012E1S / RGS2012E1E RETROFIT](#)

Installation/Operation Manuals

- [IM245 RGS2012E1 S or E Retrofit Kit SUBMERSIBLE GRINDER PUMP](#)

Specifications

- [RETROSPEC R1 RGS2012E1E/ RGS2012E1S SUBMERSIBLE GRINDER PUMP RETROFIT](#)

RGS2012 Residential Grinder Pump



Residential Wastewater Grinder Pump and Basin Packages RGS.
Designed for high head sewage applications where a gravity system is not practical
Ideal for pressure sewage systems.

Features and Benefits

- Capable of grinding domestic sewage in individual residential applications.
- Anti-Roping Design Cutter System.
- Silicon Bronze semi-open impeller with non-overloading two vane design and pump-out vanes for mechanical seal protection.
- Cast Iron Volute type casing for high efficiency.
- Designed for continuous operation.

Literature:

Technical Brochures

- [BPGPS R1 RGS Grinder Packages](#)
- [BRGS2012 RGS 2012 Submersible Grinder Pump](#)
- [BRGZ2012 RGZ2012 Submersible Grinder Pump 50 HZ](#)

Installation/Operation Manuals

- [IM174 R00 Instructions for changing a grinder pump cutter / cutter ring](#)
- [IM038 R05 Single Phase Single Seal Grinder Pump](#)

Parts Lists

- [RSES R2 Sump, Effluent and Sewage Pump Repair Parts](#)

Specifications

- [RGSSPEC R1 RGS Submersible Grinder Pumps](#)
- [RGSSPC50HZ Submersible Grinder Pumps](#)