Internal Start Components

The MDI ABS Retrofit grinder pumps easily handle residential, light commercial or industrial sanitary waste, reducing it to fine slurry. The G2-...I-ABS Series pump is designed for use in pressure sewer applications or any piping network.

The recessed vortex impeller design of the G2-...I-ABS Series grinder pump provides trouble free, non-overloading operation over the entire performance curve. The G2-...I-ABS Series pump produces capacities up to 43 gpm with heads up to 130 feet.

The modular design provides quick access to the internal start capacitor kit. Hardened stainless steel grinder assembly and many quality features.

Some of the other G2-...I-ABS Series pump features:
- G2-11SI-ABS - Strong, 2 HP, 115 V motor @ 16.9 AMPS
- G2-21SI-ABS (G2-21HI-ABS)
  - Strong, 2 HP, 208/230 V motor @ 14/12.8 AMPS
- Internal start component (no control box required)
- Potted cord cap assembly
- Dual silicon carbide shaft seals
- 3 Bearings
- Pressed in motor
- 27.5 x 8.25 x 10.75 with 1.25" NPT Removable Discharge Flange

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1. **Triple Sealed Cable Entrance**
   Stainless steel strain relief cord grip with compression grommet protects outer cord jacket. Epoxy filled inner cord cap with individually soldered wires provide anti-wicking moisture protection to the motor even if power cable is cut or damaged.

2. **Internal Start Kit**
   Start / Run capacitor with relay securely positioned in dry compartment. Rubber compression grommet for wire leads to motor prevents oil from entering chamber. 4 bolts quickly removes cord cap for easy servicing.

3. **Modular Pump Design**
   Commonality of parts across the pump product line minimizes the amount of parts required for servicing. Heavy duty ASTM A48, Class 30 cast iron components.

4. **Strong Motor**
   High torque for powerful and reliable pump operation. Pressed stator securely holds motor and efficiently transfers heat. Class F insulation with overload protection in oil filled chamber for cool operation and long motor life.

5. **3-Bearing Support**
   Motor / Pump shaft securely held with upper and lower ball bearing plus addition sleeve bearing in lower seal chamber. Long 50,000 hour B-10 bearing life.

6. **Double Mechanical Seal Protection**
   Dual silicon carbide mechanical shaft seals provide twice the moisture protection for the motor. Dual seals are housed in a secondary oil filled seal chamber. Tougher silicon carbide seals better handles sand, grit and abrasive materials.

7. **Non-Overloading Hydraulic Design**
   The recessed centrifugal impeller allows 100% performance curve operation from shut-off to maximum flow without damage to the pump or system. The recessed vortex impeller is out of the passageway of fluid flow, eliminating concerns of blockage or wear.

8. **Proven Grinder Assembly**
   Hardened (Rockwell 56-60) stainless steel grinder assembly has 30+ years proven field experience. The reversible grinder ring and grinder impeller effectively reduces solids into a fine slurry, easily passable in a piping system without concerns of clogging. Highly efficient G2-11SI-ABS & G2-21HI-ABS 7,400 (G2-21SI-ABS 16,600) cuts per second.

9. **Easy Piping Connection**
   Removable 1-1/4" NPT connection flange for simple and easy connection to discharge piping.

10. **Accessories Included**
    Stainless steel lifting handle and anti-vibration rubber mounting feet are included with the pump.
External Start Components

The MDI ABS Retrofit grinder pumps easily handle residential, light commercial or industrial sanitary waste, reducing it to fine slurry. The G2-21SE-ABS (G2-21HE-ABS) pump is designed for use in pressure sewer applications or any piping network.

The recessed vortex impeller design of the G2-21SE-ABS (G2-21HE-ABS) grinder pump provides trouble free, non-overloading operation over the entire performance curve. The G2-21SE-ABS pump produces capacities to 43 gpm with heads to 106 feet (G2-21HE-ABS produces 20 gpm to 130 gpm).

The G2-21SE-ABS (G2-21HE-ABS) grinder pump retrofits into many existing competitor pump installations. The G2-21SE-ABS (G2-21HE-ABS) pump operates with the same control panel and installation piping / rail system.

Some of the other G2-21SE-ABS (G2-21HE-ABS) series pump features:
- Interchangeable into competitor installations
- Dual mechanical seals (silicon carbide)
- Class H motor, internal overload protection
- 3 Bearing shaft support
- Internal moisture detection
- Strong, 2 HP motor 208 V @ 14 AMPS / 230 V @ 12.8 AMPS
1. **Triple Sealed Cable Entrance**
Stainless steel strain relief cord grip with compression grommet protects outer cord jacket. Epoxy filled inner cord cap with individually soldered wires provide anti-wicking moisture protection to the motor even if power cable is cut or damaged.

2. **Modular Pump Design**
Commonality of parts across the pump product line minimizes the amount of parts required for servicing. Heavy duty ASTM A48, Class 30 cast iron components.

3. **Strong Motor**
High torque for powerful (208/230 V) and reliable pump operation. Pressed stator securely holds motor and efficiently transfers heat. Class F insulation with overload protection in oil filled chamber for cool operation and long motor life.

4. **3-Bearing Support**
Motor / Pump shaft securely held with upper and lower ball bearing plus addition sleeve bearing in lower seal chamber. Long 50,000 hour B-10 bearing life.

5. **Double Mechanical Seal Protection**
Dual silicon carbide mechanical shaft seals provide twice the moisture protection for the motor. Dual seals are housed in a secondary oil filled seal chamber. Tougher silicon carbide seals better handles sand, grit and abrasive materials.

6. **Moisture Detection**
Seal leak probe signals alarm in control panel for scheduled maintenance.

7. **Non-Overloading Hydraulic Design**
The recessed centrifugal impeller allows 100% performance curve operation from shut-off to maximum flow without damage to the pump or system. The recessed vortex impeller is out of the passageway of fluid flow, eliminating concerns of blockage or wear.

8. **Proven Grinder Assembly**
Hardened (Rockwell 56-60) stainless steel grinder assembly has 30+ years proven field experience. The reversible grinder ring and grinder impeller effectively reduces solids into a fine slurry, easily passable in a piping system without concerns of clogging. Highly efficient 16,600 (G2-21HI-ABS 7,400) cuts per second.

9. **Easy Piping Connection**
Removable 1-1/4” NPT connection flange for simple and easy connection to discharge piping.

10. **Accessories Included**
Stainless steel lifting handle and anti-vibration rubber mounting feet are included with the pump.
Title: G2 Grinder Pump Outline

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**G2-11SI-ABS**

- **115 VAC**
- **Start Capacitor**
- **Start Relay**
- **Run Capacitor**
- **SST Lifting Handle**
- **1-1/2" NPT Male Thread**

**G2-21SI-ABS**

- **208/230 VAC**
- **Start Capacitor**
- **Start Relay**
- **Run Capacitor**
- **SST Lifting Handle**
- **1-1/2" NPT Discharge Flange (Removeable)**

**G2-21SE-ABS**

- **208/230 VAC 1 Phase**
- **Start Capacitor**
- **Start Relay**
- **Run Capacitor**
- **SST Lifting Handle**
- **1-1/2" NPT Discharge Flange (Removeable)**

**G2-21HE-ABS**

- **208/230 VAC 1 Phase**
- **Start Capacitor**
- **Start Relay**
- **Run Capacitor**
- **SST Lifting Handle**
- **1-1/2" NPT Discharge Flange (Removeable)**

**Mercury Displacement Industries, Inc.**

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