

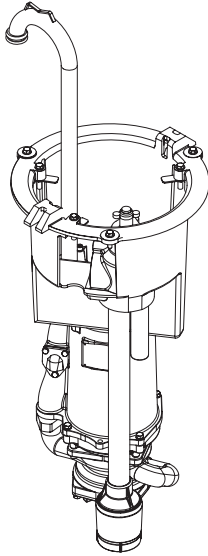
# Model OGP2022CO

Fixed Discharge Replacement Core Unit

# BARNES®

www.cranepumps.com

## Submersible Grinder Pumps



### Series: OGP2022CO 2HP, 3450RPM, 60Hz Replacement Core Unit with Level Control

This product may be covered by one or more of the following patents and other patent(s) pending:  
US Patent 7,357,341 & US Patent 7,578,657

## Replacement Core Unit



**omni**  
**GRIND™**  
GRINDER PUMPS *plus+*



PUMP IS CSA 108 - File No.  
LR16567 (UL 778 E81854)

#### DESCRIPTION:

THE GRINDER PUMP IS DESIGNED TO REDUCE DOMESTIC SEWAGE TO A FINELY GROUND SLURRY.

### Specifications:

|                                |                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DISCHARGE .....                | 1¼" Tubing, Vertical, Bolt-on Flange                                                                                                                         |
| LIQUID TEMPERATURE .....       | 104°F (40°C) Continuous                                                                                                                                      |
| VOLUTE .....                   | Cast Iron ASTM A-48, Class 30                                                                                                                                |
| MOTOR HOUSING .....            | Cast Iron ASTM A-48, Class 30                                                                                                                                |
| SEAL PLATE .....               | Cast Iron ASTM A-48, Class 30                                                                                                                                |
| IMPELLERS: <i>Design</i> ..... | 12 Vane, Vortex, With Pump Out Vanes<br>On Back Side. Dynamically Balanced,<br>ISO G6.3.                                                                     |
| <i>Material</i> .....          | 85-5-5-5 Bronze                                                                                                                                              |
| IMPELLER SPACER .....          | 300 Series Stainless Steel                                                                                                                                   |
| SHREDDING RING .....           | Hardened 440C Stainless Steel<br>Rockwell® C-55.                                                                                                             |
| CUTTER .....                   | Hardened 440C Stainless Steel,<br>Rockwell® C-55.                                                                                                            |
| SHAFT .....                    | 416 Stainless Steel                                                                                                                                          |
| SQUARE RINGS .....             | Buna-N                                                                                                                                                       |
| HARDWARE .....                 | 300 Series Stainless Steel                                                                                                                                   |
| PAINT .....                    | Air Dry Enamel.                                                                                                                                              |
| SEAL: <i>Design</i> .....      | Single Mechanical                                                                                                                                            |
| <i>Material</i> .....          | Rotating Faces - Silicon-Carbide<br>Stationary Faces - Silicon-Carbide<br>Elastomer - Buna-N<br>Hardware -300 Series Stainless                               |
| CORD ENTRY .....               | 15 ft. (4.5m) Std. Cord. Custom Molded<br>Quick Connect, for Sealing and Strain<br>Relief (EQD Optional)                                                     |
| CORD <i>Automatic</i> .....    | CSA/UL Approved 12/5 Type SOW                                                                                                                                |
| UPPER BEARING:                 |                                                                                                                                                              |
| <i>Design</i> .....            | Single Row, Angular contact Ball                                                                                                                             |
| <i>Lubrication</i> .....       | Oil                                                                                                                                                          |
| <i>Load</i> .....              | Radial & Thrust                                                                                                                                              |
| LOWER BEARING:                 |                                                                                                                                                              |
| <i>Design</i> .....            | Single Row, Angular contact Ball                                                                                                                             |
| <i>Lubrication</i> .....       | Oil                                                                                                                                                          |
| <i>Load</i> .....              | Radial & Thrust                                                                                                                                              |
| MOTOR: <i>Design</i> .....     | NEMA L-Single Phase Torque Curve,<br>Oil-Filled, Squirrel Cage Induction                                                                                     |
| <i>Insulation</i> .....        | Class F                                                                                                                                                      |
| SINGLE PHASE .....             | Capacitor Start/Capacitor Run                                                                                                                                |
| SUPPORT POD .....              | Engineered Polyamide Pod,<br>Stainless Hardware and Polypropylene<br>Rope                                                                                    |
| LEVEL CONTROL .....            | Model ESPS-150, Environmentally sealed<br>pressure switch with CPVC housing,<br>Buna diaphragm, Custom molded quick<br>connect for sealing and strain relief |
| CHECK VALVE                    |                                                                                                                                                              |
| <i>Body</i> .....              | Integrated PA Composite                                                                                                                                      |
| <i>Seat</i> .....              | ASTM C836                                                                                                                                                    |
| <i>Flap</i> .....              | Fiber Reinforced Buna                                                                                                                                        |
| RECOMMENDED                    |                                                                                                                                                              |
| Seal Kit PN .....              | 116664                                                                                                                                                       |
| Service Kit PN .....           | 116665                                                                                                                                                       |

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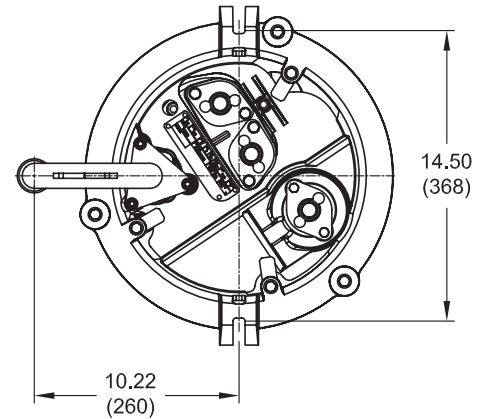
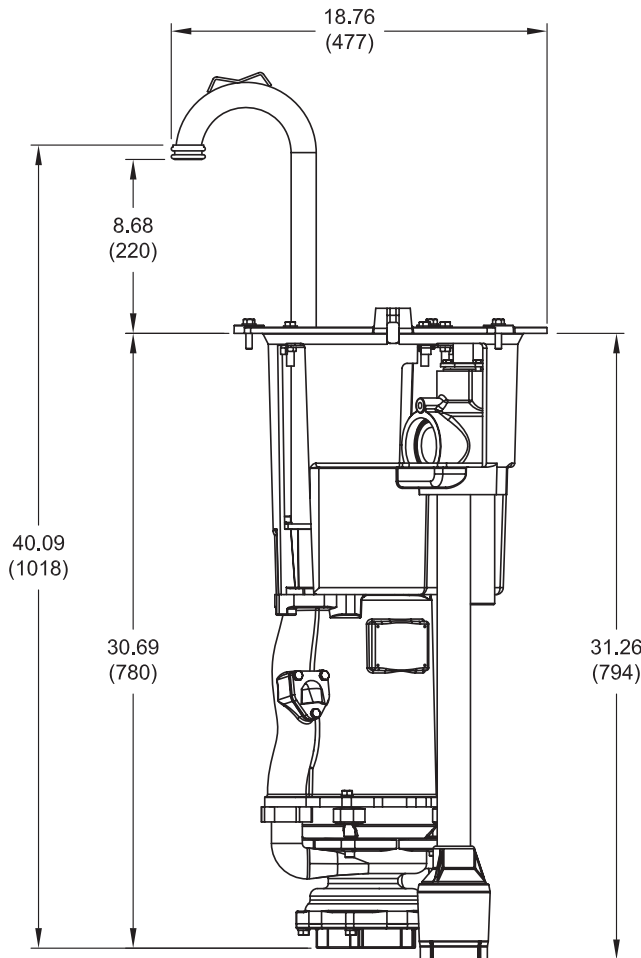
## CRANE®

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#### Submersible Grinder Pumps



inches  
(mm)

#### OPTIONAL INDOOR REMOTE ALARM LIGHT



| PART NO. | PLATE COLOR |
|----------|-------------|
| 130849B  | ALMOND      |
| 130849W  | WHITE       |
| 130849S  | STAINLESS   |

(Ordered Separately)

| MODEL NO  | PART NO   | HP | VOLT/PH | Hz | RPM (Nom) | NEMA START CODE | FULL LOAD AMPS | LOCKED ROTOR AMPS | CORD SIZE  | CORD TYPE | CORD O.D. ± .02 (.5) in (mm) | OPTIONAL EQD   |
|-----------|-----------|----|---------|----|-----------|-----------------|----------------|-------------------|------------|-----------|------------------------------|----------------|
| OGP2022CO | 131717    | 2  | 240/1   | 60 | 3450      | H               | 16.5           | 53.8              | 12/5 - 15' | SOW       | .71 (18)                     | None           |
| OGP2022CO | 131717XC  | 2  | 240/1   | 60 | 3450      | H               | 16.5           | 53.8              | 12/5 - 30' | SOW       | .71 (18)                     | None           |
| OGP2022CO | 131717E   | 2  | 240/1   | 60 | 3450      | H               | 16.5           | 53.8              | 12/5 - 15' | SOW       | .71 (18)                     | 2000 Series    |
| OGP2022CO | 131717EXC | 2  | 240/1   | 60 | 3450      | H               | 16.5           | 53.8              | 12/5 - 30' | SOW       | .71 (18)                     | 2000 Series    |
| OGP2022CO | 131717T   | 2  | 240/1   | 60 | 3450      | H               | 16.5           | 53.8              | 12/5 - 15' | SOW       | .71 (18)                     | Extreme Series |
| OGP2022CO | 131717TXC | 2  | 240/1   | 60 | 3450      | H               | 16.5           | 53.8              | 12/5 - 30' | SOW       | .71 (18)                     | Extreme Series |

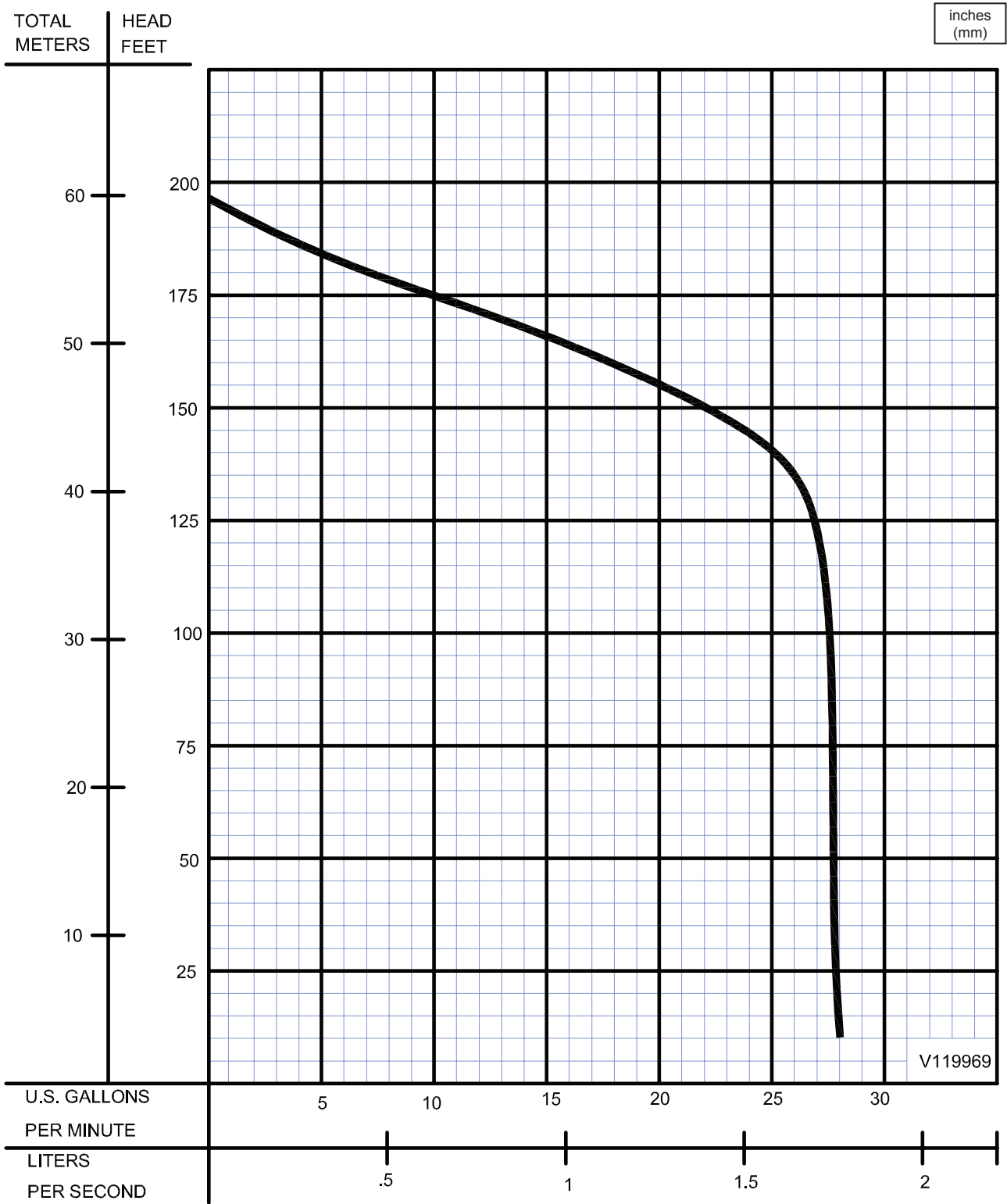
#### Optional Circuit Breakers - Ordered Separately

| PART NO. | DESCRIPTION                     |
|----------|---------------------------------|
| 113291B  | 20 AMP, GE THQP Snap in Breaker |
| 105476   | 20 AMP, DIN Rail Breaker        |

#### IMPORTANT !

- PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

**Submersible Grinder Pumps**



Performance curve includes impact of integral anti-siphon and check valve.  
 Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance