PENTAIR

# HYDROMATIC®

# MODELS HPGF(X)/HPGFH(X)

## SUBMERSIBLE SEWAGE GRINDER PUMPS

### ALSO AVAILABLE FOR HAZARDOUS LOCATION

HPGFX/HPGFHX

FM APPROVED

WWW.HYDROMATIC.COM

# HYDROMATIC® MODELS HPGF(X)/HPGFH(X)

# Submersible Sewage Grinder Pumps

| HPGF/HPGFH Pumps Characteristics | | | | | |
|---|---|---|---|---|---|
| Pump / Motor Unit | Submersible-Grinder | | | | |
| Phase | 1 Ø | | 3 Ø | | |
| Horsepower | 3 | 5 | 3 | 5 | 7.5 |
| 208V FLA | N/A | N/A | 10.9 | 17.6 | 29 |
| 230V FLA | 17.1 | 29.5 | 9.5 | 15.3 | 25.2 |
| 460V FLA | N/A | N/A | 4.8 | 7.6 | 12.6 |
| 575V FLA | N/A | N/A | 3.8 | 6.1 | 10.1 |
| Motor Type | Oil-Cooled Induction Capacitor Start | | Oil-Cooled Induction | | |
| RPM | 1750 | | | | |
| Temperature | 140˚F Ambient | | | | |
| Operation | Intermittent | | | | |
| Hertz | 60 Hz | | | | |
| Thermal Overload | Bimetallic | | | | |
| Temperature | Maximum Water 140˚F | | | | |
| NEMA Design | Type B (3 Ø) | | Type L (1 Ø) | | |
| Insulation | Class F | | | | |
| Discharge Size | 2" NPT – 3" 125 lb. Flange (Horizontal) | | | | |
| Unit Weight | 245 lbs. | | | | |
| Power Cord | SOOW, W | | | | |
| Control Cord | SOOW | | | | |

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| Control Cord | SOOW | | | | |

| HPGF/HPGFH Materials of Construction | |
|---|---|
| Description | Material of Construction |
| Motor Housing | Cast Iron ASTM-48 |
| Pump Casing | Cast Iron ASTM-48 |
| Coolant/Lubricant | Dielectric Oil |
| Shaft | Stainless Steel |
| Mechanical Shaft Seal | Seal Faces: Carbon / Ceramic, Seal Body: Stainless Steel, Spring: Stainless Steel, Bellows: Buna-N |
| Impeller | Semiopen 5-Vane SST |
| Cutters | 440C Hardened 55-60 Rockwell C |
| Upper Bearing | (Radial) Single Row–Ball |
| Lower Bearing | (Thrust) Single Row–Ball |
| Fasteners | Stainless Steel |

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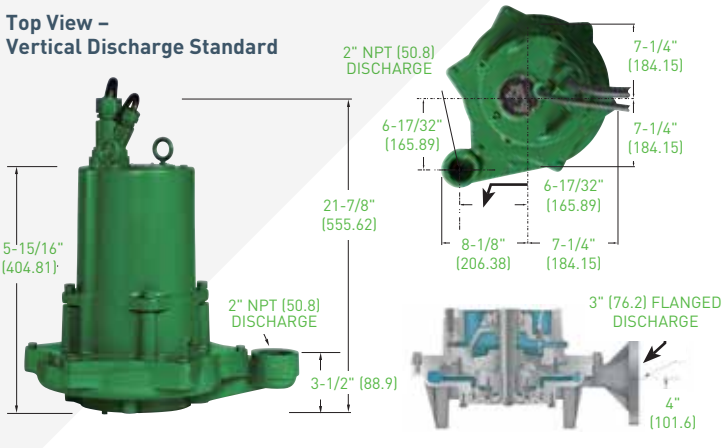
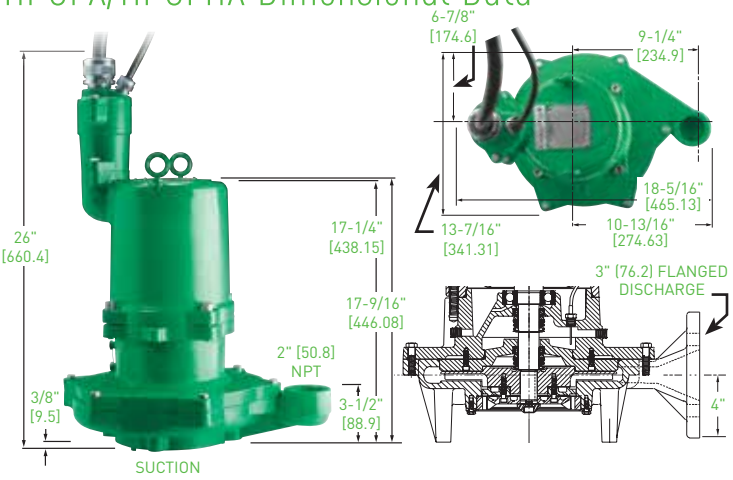
## HPGF/HPGFH Dimensional Data

**Top View –**
**Vertical Discharge Standard**



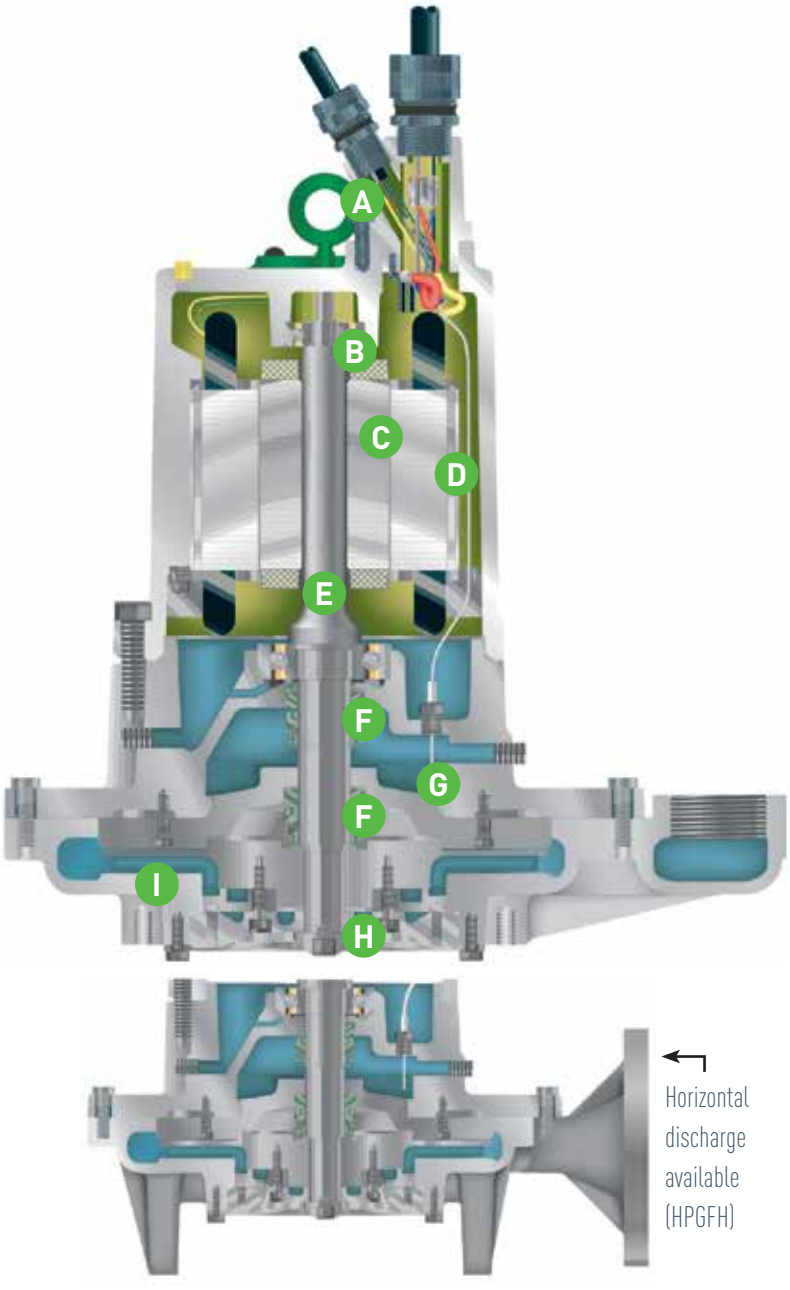

## HPGFX/HPGFHX Dimensional Data






All dimensions in inches. Metric for international use. Component dimensions may vary ± 1/8 inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable.

# HPGF/HPGFH Pump Features




## Applications:

Residential, Commercial, Resort Area

### A. Two Barrier Seal

One epoxy barrier and one compression fitting for maximum protection against wicking and water seepage into the motor housing.

### B. Bearings

The heavy-duty ball bearings, upper (radial) and lower (thrust), are continuously lubricated by oil to ensure long service life.

### C. Motor

Electrical design combines the advantages of high torque output with optimum running efficiency engineered specifically for grinder operation.

### D. Stator Bolts

The stator is secured to the motor housing by means of stator bolts which ensure ease of maintenance if the need ever arises.

### E. Shaft

Standard stainless steel shaft in grinder pump.

### F. Dual Seals

Dual seals for maximum moisture protection.

### G. Moisture Probe

Moisture detection probe.

### H. Cutters

Exclusive "Dual Cutter" design cuts solids to smallest particle size thereby greatly reducing clogging, roping, or binding.

### I. Impeller

Impeller made of high strength 316 SST / CF8M which provides a high level of corrosion resistance and toughness from impact for a wide variety of slurry pumpage.

# HPGFX/HPGFHX Pump Features

## A. Three Barrier Seal
One epoxy barrier, one compression fitting and two additional O-rings for maximum protection against wicking and water seepage into the motor housing.

## B. Bearings
The heavy-duty ball bearings, upper (radial) and lower (thrust), are continuously lubricated by oil to ensure long service life.

## C. Motor
Electrical design combines the advantages of high torque output with optimum running efficiency engineered specifically for grinder operation.

## D. Stator Bolts
The stator is secured to the motor housing by means of stator bolts which ensure ease of maintenance if the need ever arises.

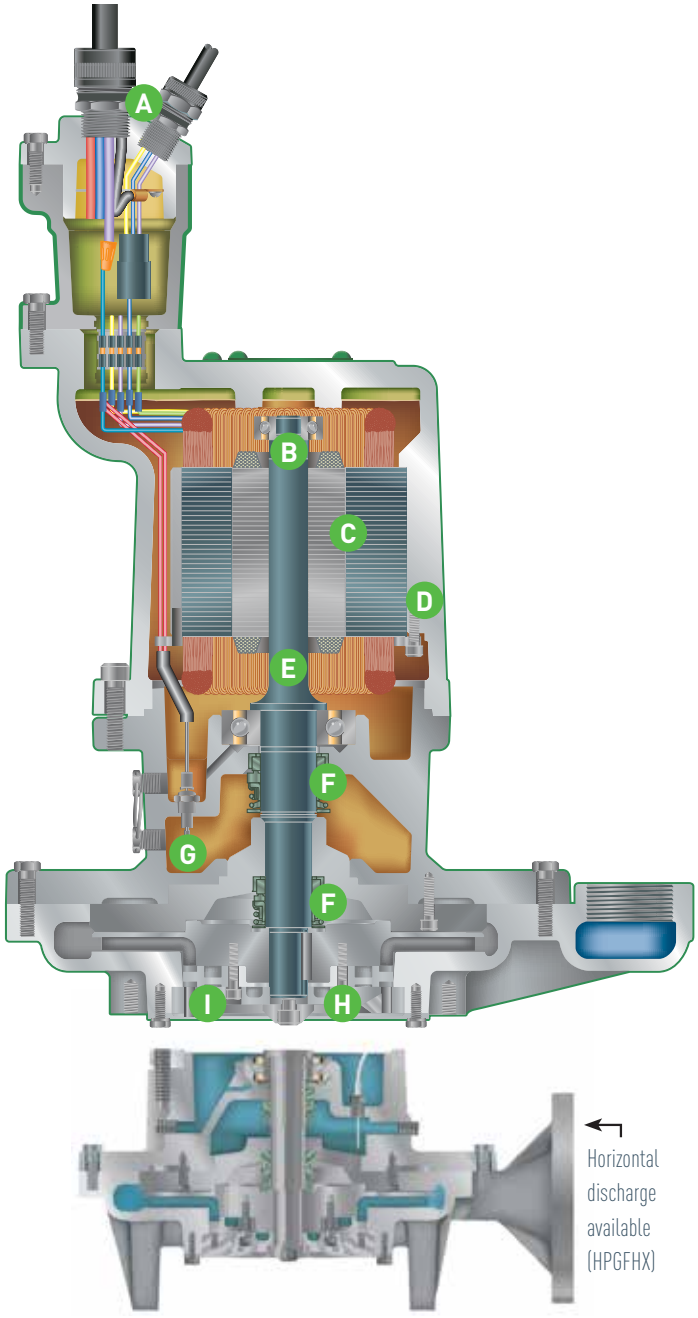
## E. Shaft
Standard stainless steel shaft in grinder pump.

## F. Dual Seals
Dual seals for maximum moisture protection.

## G. Two Moisture Probes
Moisture detection probe located in seal chamber.

## H. Cutters
Exclusive "Dual Cutter" design cuts solids to smallest particle size thereby greatly reducing clogging, roping, or binding.

## I. Impeller
Multivane, semiopen impeller.






Horizontal discharge available (HPGFHX)

## Applications:
Municipal, Commercial, Residential, Resort Area

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