



**HYDROMATIC<sup>®</sup>**  
**MODELS HPGF/HPGFH**  
**SUBMERSIBLE SEWAGE**  
**GRINDER PUMPS**



# HYDROMATIC® MODELS HPGF/HPGFH

## Submersible Sewage Grinder Pumps

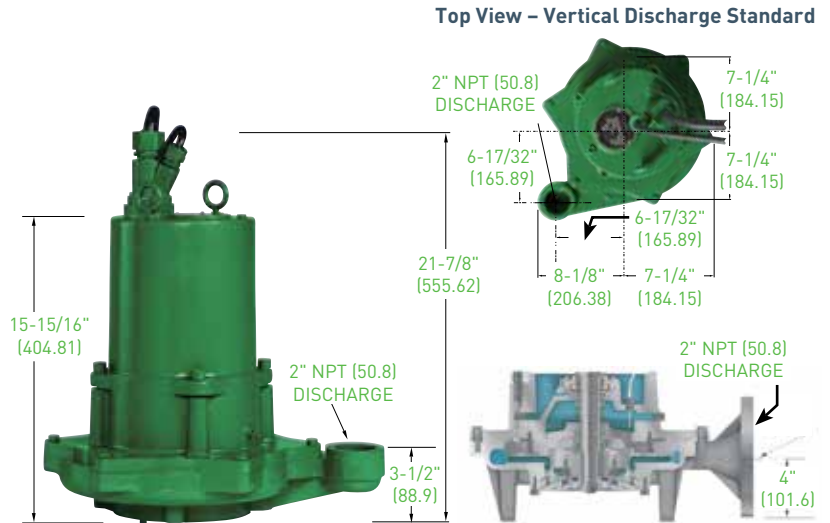
### Pumps Characteristics

Pump / Motor Unit	Submersible-Grinder	
Phase	1 Ø	3 Ø
Voltage	200 / 230	200 / 230 / 460 / 575
Horsepower	3 HP & 5 HP	3 HP, 5 HP & 7.5 HP
Full Load Amps 3 HP	19.6 / 17.1	10.9 / 9.5 / 4.8 / 3.8
Full Load Amps 5 HP	- / 29.5	17.6 / 15.3 / 7.6 / 6.1
Full Load Amps 7.5 HP	- / -	29 / 25.2 / 12.6 / 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	
Unit Weight	245 lbs.	
Power Cord	SOOW, W	
Control Cord	SOOW	

### Materials of Construction

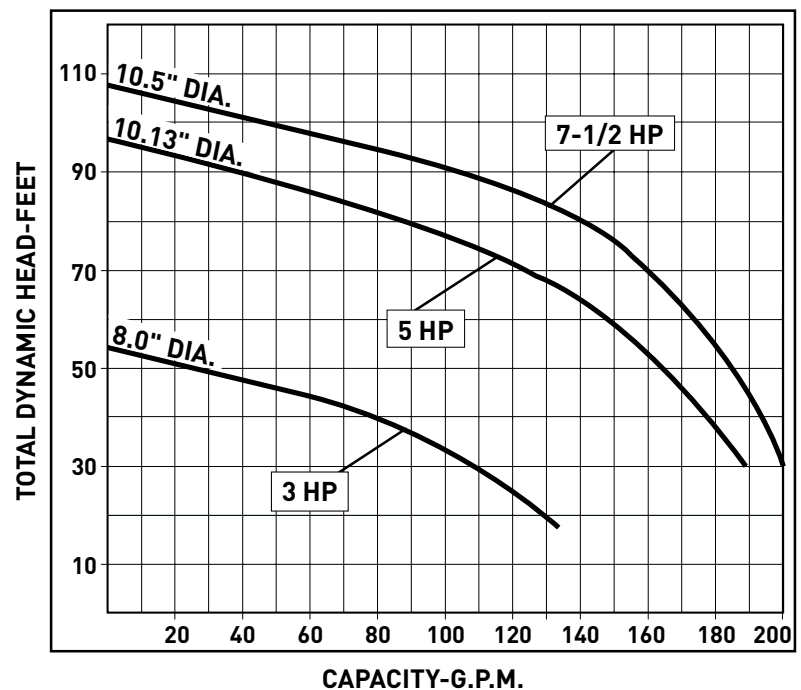
Description	Material of Construction
Motor Housing	Cast Iron ASTM-48
Pump Casing	Cast Iron ASTM-48
Coolant/Lubricant	Dielectric Oil
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon / Ceramic Seal Body: Stainless Steel Spring: Stainless Steel Bellows: Buna-N
Impeller	Semiopen 5-Vane Brass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

### Dimensional Data

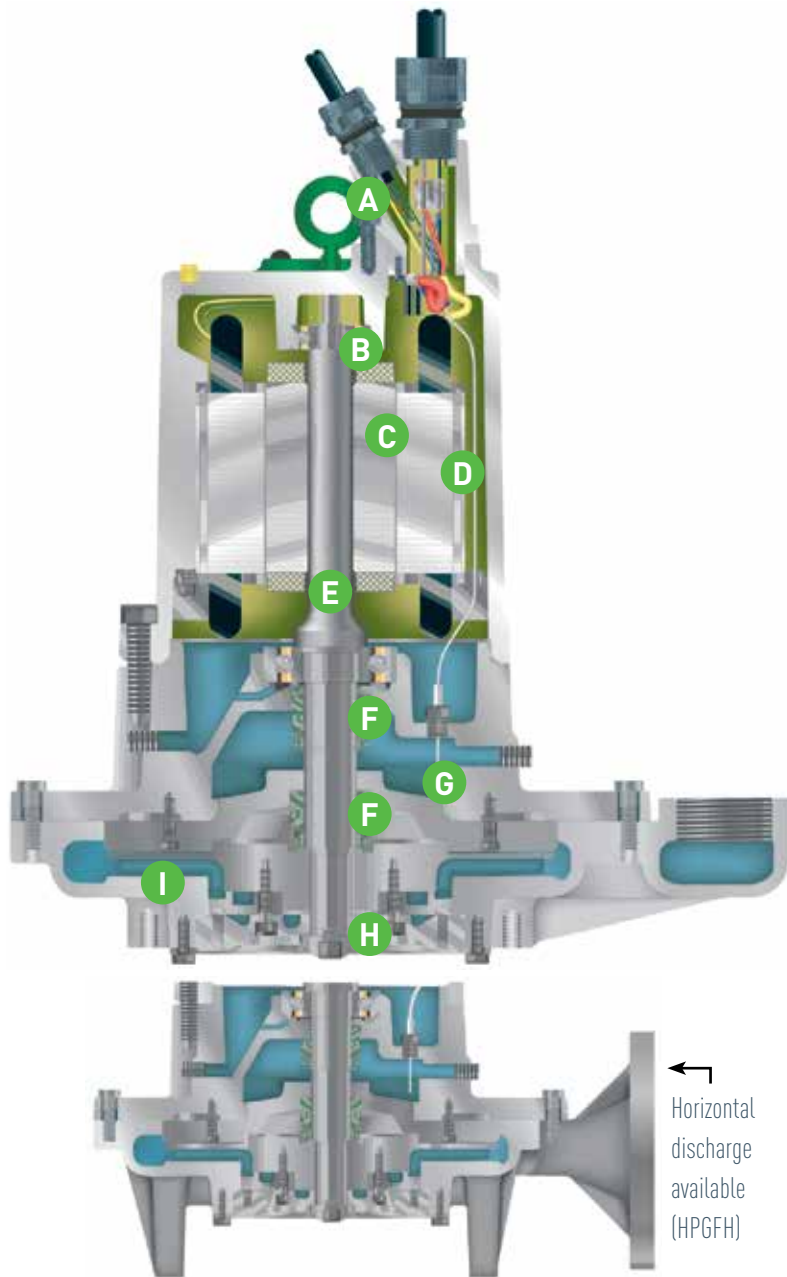


All dimensions in inches (mm). Metric for international use. Component dimensions may vary ± 1/8 inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable.

### Performance Data



# Pump Features



## 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

Engineered nonmetallic semiopen impeller molded to a bronze insert for greatest torque driving capabilities. Impeller made of high strength Valox® which provides highest level of corrosion resistance and maximum toughness from impact for a wide variety of slurry pumpage. Pump-out vanes preclude material buildup around shaft and seal.

## Applications:

Residential, Commercial, Resort Area



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