

SUBMERSIBLE SEWAGE GRINDER PUMPS

Models HPGF/HPGFH



Applications

- Residential, Commercial, Resort Area

Pump 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
R.P.M.	1750	
Temp.	140° F Ambient	
Operation	Intermittent	
Hertz	60 Hz	
Thermal Overload	Bi-Metallic	
Temperature	Max. 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	Type STW/STW-A Water Resistant 600V, 60° C CSA Approved Pending 20' Ft. Std.	

Materials 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	Semi-open 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



HPGF/HPGFH – Submersible Sewage Grinder Pumps

Details

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

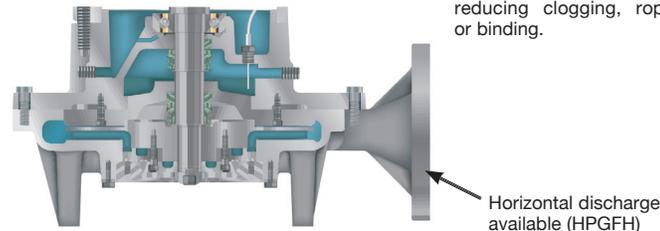
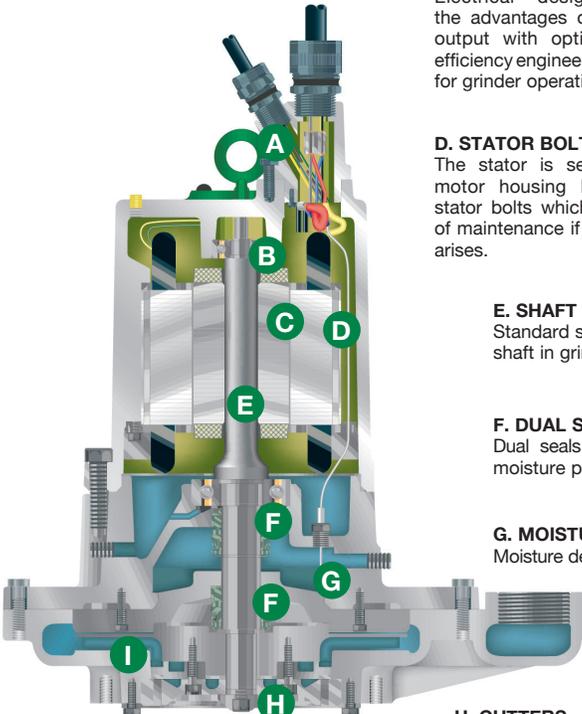
Dual seals for maximum moisture protection.

G. MOISTURE PROBE

Moisture detection probe.

H. CUTTERS

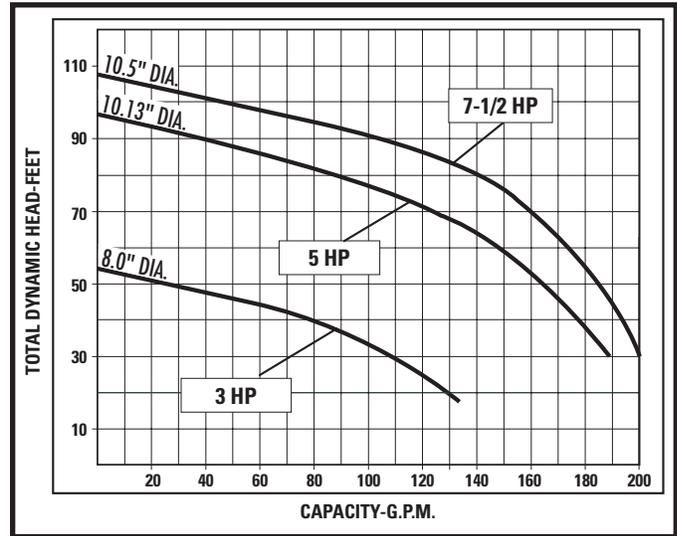
Exclusive "Dual Cutter" design cuts solids to smallest particle size thereby greatly reducing clogging, roping, or binding.



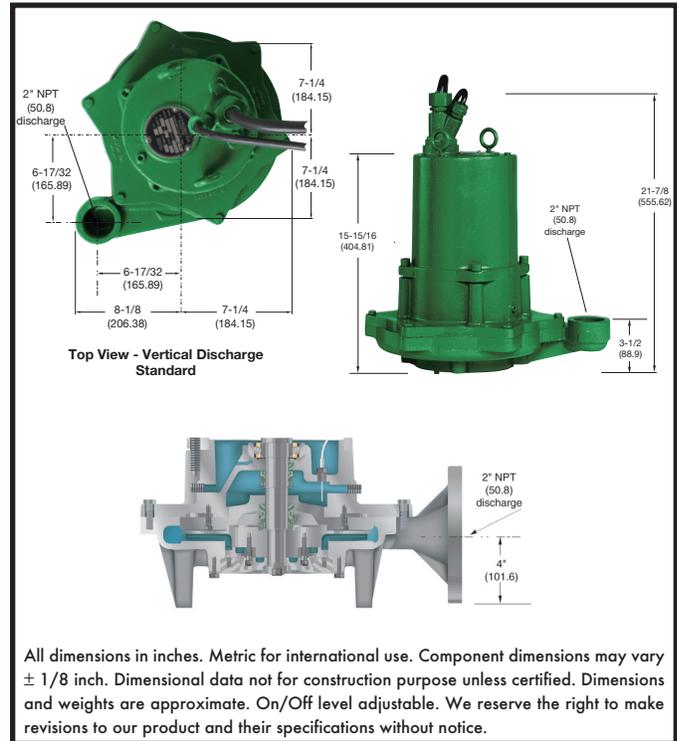
I. IMPELLER

Engineered non-metallic semi-open 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. Bronze impeller is standard.

Performance Data



Dimensional Data



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