

# PFSWG Submersible Sewage Grinder Pump

## Applications

The PFSWG Sewage Grinder Pump is typically used to grind and transport sewage from a pump basin to primary tankage or to a pressure sewer line. It is also used in applications where grinder pumps are specified by regulation or code. Its corrosion-resistant construction adds durability in wastewater applications. PFSWGs are CSA and UL listed. Manufactured by Franklin Electric.



PFSWG200

## Features/Specifications

To specify this product, require the following:

- Cast iron pump housing and cover with epoxy coating for durability and corrosion-resistance
- Built-in overload protection for over-current and over-temperature prevention
- No external capacitors required
- Short motor shaft for reduced deflection
- Tight cutting clearances for superior cutting action — 414,000 cuts per minute
- Stainless steel screws, bolts, and handle
- Three-year warranty from date of manufacture

## Standard Model

PFSWG200

## Materials of Construction

Motor Housing	Epoxy-coated cast iron
Impeller	Brass
Volute	Epoxy-coated cast iron
Mechanical shaft seal	Carbon and ceramic
Bearings	Single-row ball
Shaft	Stainless steel
Rotating cutter	Two-blade, stainless steel, 55-60C Rockwell hardness
Stationary cutter	Stainless steel, 55-60C Rockwell hardness
Power cord	SOOW or SOW 14/3 AWG
Fasteners	Stainless steel



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## Specifications

### Dimensions

A, in. (mm)	21.6 (548)
B, in. (mm)	5.8 (147)
C, in. (mm)	5.5 (140)
D, in. (mm)	11.5 (292)
Discharge size <sup>1</sup>	1-1/4" FNPT
Cord length, ft (m)	15.0 (4.57)
Weight, lb (kg)	75.0 (34)

### Performance

Horsepower (kW)	2.0 (1.49)
Nameplate voltage	230
Full load amps	11.6
Phase	1
Minimum liquid level, in. (mm)	18.0 (457)
Maximum starts per day	100
Minimum off-time, minutes	1
Impeller type	Seven-vane, non-clog

<sup>1</sup> Discharge is female NPT threaded, U.S. nominal size, to accommodate Orenco® discharge hose and valve assemblies. Consult your Orenco Distributor about fittings to connect discharge assemblies to metric-sized piping.

## Using a Pump Curve

A *pump curve* helps you determine the best pump for your system. Pump curves show the relationship between flow and pressure (total dynamic head, or TDH), providing a graphical representation of a pump's optimal performance range. At low flow rates, TDH varies from pump to pump, so it is represented as a dashed line in the pump curves. For the most accurate pump specification, use Orenco's PumpSelect™ software.

