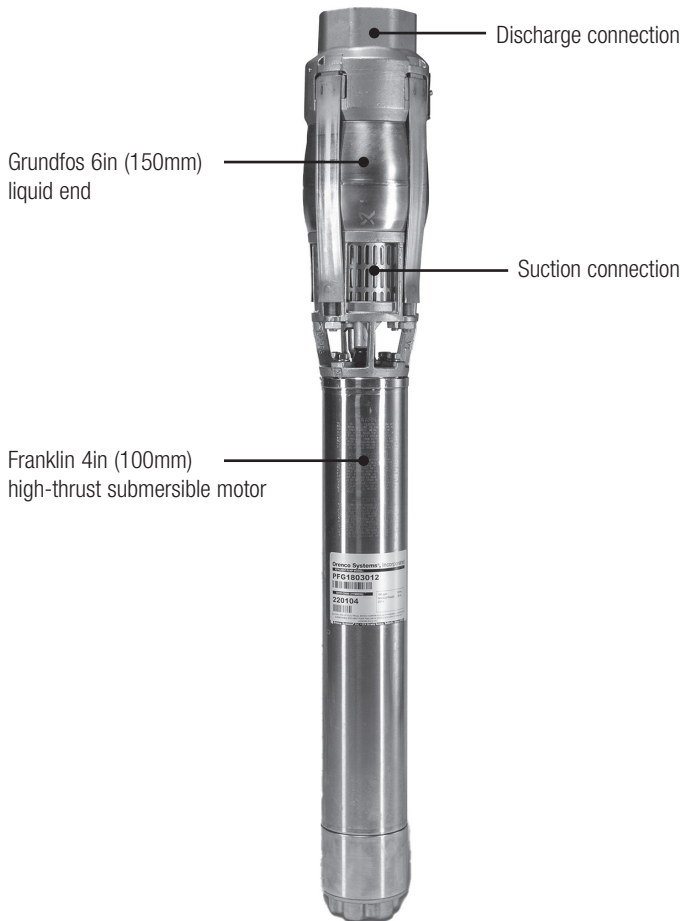


PFG-Series High-Flow 60Hz Submersible Effluent Pumps

Applications

Orenco's PFG-Series High-Flow Submersible Effluent Pumps are designed to transport screened effluent (with low TSS counts) in AdvanTex® AX-Max™ and AX-Mobile™ Treatment Systems. They are also used in pump applications where high flows are required.

Because PFG pumps have 6in (150mm) liquid ends, a 7in (178mm) flow inducer is required to house them.



Orenco PFG-Series High-Flow Submersible Effluent Pump

General

PFG-Series High-Flow Pumps* combine a 6in (150mm) liquid end and a 4in (100mm) pump motor to provide high flow and high head in applications where both are necessary. They are constructed of corrosion-resistant stainless steel.

PFG pumps are serviceable in the field with common tools. Because of their specific applications, they are not rated for run-dry capability. All PFG pumps are CSA certified to the US and Canadian safety standards for effluent pumps, meeting UL requirements.

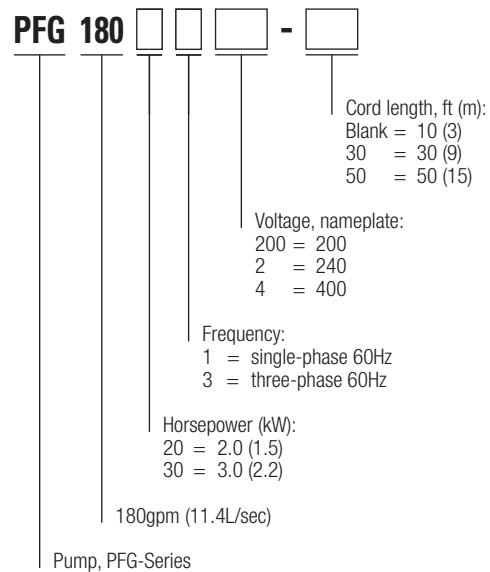
To specify this pump for a project, require the following features:

- Grundfos 6in (150mm) liquid end
- Franklin Electric Super Stainless motor, rated for continuous use and frequent cycling
- Type 14/4 SOOW 600V motor cable

Standard Models

PFG1802012, PFG1802032, PFG180203200, PFG1802034
PFG1803012, PFG1803032, PFG180303200, PFG1803034

Product Code Diagram



* These pumps require a capacitor pack (sold separately or installed in a custom control panel). Contact Orenco for information.

All product and performance assertions are based on proper design, installation, operation, and maintenance according to Orenco's current published documentation.

Specifications

Pump Model	Design gpm (L/sec)	Horsepower (kW)	Phase	Nameplate voltage	Actual voltage	Max amps	Discharge size and material*	Length in (mm)	Min. liquid level in (mm)	Weight lb (kg)	Rated cycles per day
PFG1802012	180 (11.4)	2.0 (1.5)	1	230	240	10.0	3in SS	34.1 (866)	34 (864)	55 (24.9)	100
PFG1802032	180 (11.4)	2.0 (1.5)	3	230	240	6.7	3in SS	33.5 (851)	33 (838)	50 (22.7)	300
PFG180203200	180 (11.4)	2.0 (1.5)	3	200	208	7.7	3in SS	33.5 (851)	33 (838)	50 (22.7)	300
PFG1802034	180 (11.4)	2.0 (1.5)	3	460	480	3.4	3in SS	33.5 (851)	33 (838)	50 (22.7)	300
PFG1803012	180 (11.4)	3.0 (2.2)	1	230	240	14.0	3in SS	37.4 (950)	37 (940)	68 (30.8)	100
PFG1803032	180 (11.4)	3.0 (2.2)	3	230	240	9.5	3in SS	34.4 (874)	34 (864)	63 (28.6)	300
PFG180303200	180 (11.4)	3.0 (2.2)	3	200	208	10.9	3in SS	34.4 (874)	34 (864)	63 (28.6)	300
PFG1803034	180 (11.4)	3.0 (2.2)	3	460	480	4.8	3in SS	34.4 (874)	34 (864)	63 (28.6)	300

*Discharge connection is a National Pipe Thread (NPT) threaded stainless steel receptacle-style port, US nominal size, to accommodate Orenco discharge hose and valve assemblies. Consult your Orenco distributor about fittings to connect discharge assemblies to metric-sized piping.

Materials of Construction

Coupling	Stainless steel
Diffuser	Stainless steel
Discharge	Stainless steel
Discharge bearing	PTFE/stainless steel
Drive shaft	Stainless steel
Impeller	Stainless steel
Intake screen	Stainless steel
Motor	Franklin Electric high thrust. Filled with deionized water and propylene glycol for constant lubrication. Hermetically sealed windings. Kingsbury-type thrust bearings. Continuous duty rated. Single-phase motors have built-in lightning arresters. Control panels featuring thermal overload protection are recommended.
Shell	Stainless steel
Suction connection	Stainless steel

Using a Pump Curve

A pump curve helps you determine the best pump for your system. Pump curves show the relationship between flow (gpm or L/sec) and pressure (total dynamic head, or TDH), providing a graphical representation of a pump's optimal performance range. Pumps perform best at their nominal flow rate – the value, measured in gpm, expressed by the first two numerals in an Orenco pump nomenclature. The graph to the right uses a solid line to show the optimal pump operation range. Dashed lines indicate flow rates outside of this range. For the most accurate pump specification, use Orenco's PumpSelect™ software.

