Variable Frequency Constant Pressure Water Pump

This variable frequency water pump maintains constant water pressure by modulating motor speed according to water consumption. This design saves energy and ensures consistent pressure.

Product Overview

A detailed technical visualization of the high-efficiency permanent magnet variable frequency pump system.

Constant Pressure Variable Frequency Pump

This advanced permanent magnetic pressure constant variable frequency pump is designed for high-efficiency and energy-saving performance. By automatically adjusting motor speed based on real-time water consumption, it maintains stable pressure levels and prevents energy waste. The system features a durable, corrosion-resistant design suitable for various water boosting applications.

Key Features

System Advantages

- Ultra-high energy efficiency with 1W standby power consumption
- Maintenance-free non-inductive motor drive (FOC)
- Stainless steel rotor shaft with welding technology
- IIR material diaphragm for improved gas tightness
- Integrated LCD interface for intuitive operation
- World-class Sensata pressure sensors for high reliability

Core Technologies	Permanent Magnet Synchronous Motor, FOC Vector Drive, Diaphragm Pressure Tank, Anti-Water Hammer System

Materials and Build

Construction

- Stainless steel pump body
- Stainless steel impeller
- 304SS welded shaft
- Silicon carbide-graphite mechanical seal
- IP54 protection rating

Performance Data

Model Specifications

Model	Power (W)	Max Flow (m³)	Max Head (m)
APG203	800	5.1	38
APG204	1000	5.6	54