

# MARCO

## Series UP12 Gear Pumps for Water & Diesel Fuel

12 or 24 VDC, Flow to 10.5 GPM, Pressure to 36 PSI

### DESCRIPTION

Model UP12 is a self-priming, compact, powerful, 12 or 24 VDC electric gear pump. UP12 is constructed of helical bronze gears, nickel-plated brass body and stainless steel shaft.

Use UP12 for fresh water, diesel fuel and other compatible media.

The E Option for UP12 is a built in pressure control whereby a factory programmed pressure setting is maintained via a built-in microprocessor based variable pump speed control circuit that utilizes an internal pressure sensor for loop feedback. Main application is low cost pressure/flow control for small water and process systems.



UP12



UP12E

### SPECIFICATIONS

#### GENERAL

Ports: Tapped 1/2" BSP, pump supplied with 2 ea 1/2" NPT adaptors

Motor: 12VDC or 24VDC, powdered epoxy coated

Circuit Protection: Install fuse 12 V, 30A; 24 V, 15A

Current: See Curves

Flow Rate: See Curves

Self Priming With Wet Gears: 13.1 ft (4 m)

Pump Duty: Intermittant

Motor Life: Approx. 2000 hours

Max. Ambient Operating Temperature: 14-140°F (-10-60°C)

Max. Relative Humidity: 90%

Pump Body: Nickel plated Brass

Gears: UP12/Oil, Bronze; UP12/P (PTFE)

Shaft: Stainless Steel

\*Suitable Fluid Media:

Fresh Water (max. 85°C, 185°F) & diesel fuel with viscosity between 2 & 5.35 cSt to 37.8°C, 100°F; minimum flashpoint (PM): 55°C, 131°F

Unsuitable Fluid Media: DO NOT USE for Gasoline, flammable liquids with PM < 131°F, liquids with viscosity > 20 cSt, food products, corrosive chemicals & solvents

Weight: 9.5 lbs

\* A model with lower operating speed is available for lubricating oils and viscous liquids, consult factory.

### ORDERING INFORMATION

#### ABC

Example: UP1224V

A Model	B Voltage	C Options
UP12	12V= 12 VDC 24V= 24 VDC	- None E= Electronic Pressure Control, Specify Pressure Setpoint

Note: A 250-400 micron filter is recommended for applications where the fluid media contains particles.

### DIMENSIONS (INCHES)

