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.

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: Intermittent
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

<table>
<thead>
<tr>
<th>A</th>
<th>Model</th>
<th>B</th>
<th>Voltage</th>
<th>C</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP12</td>
<td>12V= 12 VDC</td>
<td>E</td>
<td>Electronic Pressure Control, Specify Pressure Setpoint</td>
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<td></td>
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<tr>
<td>24V= 24 VDC</td>
<td>- None</td>
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Note: A 250-400 micron filter is recommended for applications where the fluid media contains particles.