MARCO
Series UP2 Gear Pumps for Water & Engine Oil
Water to 2.6 GPM, Oil to 52.9 GPH

DESCRIPTION
Model UP2/Oil and UP2/P are self-priming, compact, powerful, 12 or 24 VDC electric gear pumps. UP2/Oil is constructed of helical bronze gears, nickel-plated brass body and stainless steel shaft. UP2/P has PTFE gears.

Use UP2/Oil for transfer, circulation or drainage of lubricating oils and viscous liquids. Use UP2-P for fresh and salt water as well as for diesel fuel.

The E Option for UP2 is a built in pressure control whereby a factory programed 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.

The UP2 measures a mere 4 3/8” in length and fits easily in the tightest of spaces.

SPECIFICATIONS
GENERAL
Ports: Tapped 3/8” BSP, pump supplied with 2 ea 3/8” NPT adaptors
Motor: 12VDC or 24VDC, powdered epoxy coated
Circuit Protection: Install fuse
  UP2/OIL- 12 V, 3A; 24 V, 1.5A
  UP2/P- 12V, 5A; 24 V, 3A
Current: See Curves
Flow Rate: See Curves
Self Priming With Wet Gears: 4.92 ft (1.5 m)
Pump Duty: Intermittent
Motor Life: Approx. 2000 hours
Max. Operating Temperature: 14-140°F (-10-60°C)
Max. Relative Humidity: 90%
Pump Body: Nickel plated Brass
Gears: UP2/Oil, Bronze; UP2/P (PTFE)
Shaft: Stainless Steel
Suitable Fluid Media:
  UP2/OIL: Fresh Water (max. 85°C, 185°F), engine oil & non-corrosive viscous liquids (max viscosity 85cSt), diesel fuel with viscosity between 2 & 5.35 cSt to 37.8°C, 100°F; minimum flashpoint (PM): 55°C, 131°F
UP2/P: Fresh water & sea water (max. 40°C, 104°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 (UP2/Oil & UP2-P): DO NOT USE for Gasoline, flammable liquids with PM<131°F, liquids with viscosity> 20 cSt, food products, corrosive chemicals & solvents
ORDERING INFORMATION

**ABC**
Example: UP2/Oil24V

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>Model</td>
<td>Voltage</td>
<td>Options</td>
</tr>
<tr>
<td>UP2/P</td>
<td>12V = 12 VDC</td>
<td>- None</td>
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<tr>
<td>UP2/Oil</td>
<td>24V = 24 VDC</td>
<td>E = Electronic Pressure Control, Specify Pressure Setpoint</td>
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Note: A 250-400 micron filter is recommended for applications where the fluid media contains particles.