RS Pro Micro High Flow Centrifugal Pump

Overview: Micro, Low Pressure, High Flow, Liquid Pump Range

The M100 series range of pumps are constructed from precision CNC machined aluminium alloy with stainless steel tubing connectors. The M100 range is fitted with Viton seals as standard. Alternative seal materials and optional wetted part coatings and materials are also available enabling this pump range to resist most chemicals and solvents. The pump uses efficient push fit connectors designed for 2.4mm bore flexible tubing. A 220mm electrical fly-lead is fitted as standard.

Pump Variants

M100S - Standard pump suitable for most applications
M100P2 and P4 - Super efficient pumps for fixed 6V supply
M100S-180 - Standard pump for inline flow connection
M100S-SUB - Pump for submersion in pumping medium

Typical Applications

Medical devices
Lubrication systems
Fuel Cells
Battery and Solar Powered Systems
Cooling Systems
Low Pressure Fuel Pump

Features

- CNC aluminum alloy construction
- Quiet pulseless smooth flow
- Small size only 28 x 14 x 14 mm
- Weight 10g
- Free flow up to 400ml per minute (water)
- Power by Solar supply, PSU or batteries
- Wide range of chemical resistance
Datasheet
RS Stock No. 9146944

Materials

Wetted Parts
- Anodised 6000 Series Aluminum
- 316 Stainless Steel
- Viton or EPDM
- Polyacetal

Other
- Materials typical to 3 pole DC motor

Performance Data

- Small Size: 14 x 14 x 28mm
- Weight: 9 - 11 g
- Operating Temp: -20 to 100 deg C
- Smooth Pulseless Flow
- IP Rating - Standard pumps: IP45
  Waterproof pumps: IP67
- Noise Levels: <1dB
  Measured at a distance of 1m with a 50dB ambient noise level

- MTBF - Stock Pumps: 1,000hrs
  Special variants available to order: 10,000hrs

<table>
<thead>
<tr>
<th>Variant</th>
<th>Input (V)</th>
<th>Power (W)</th>
<th>Flow (mL/min)</th>
<th>Pressure (mbar)</th>
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<tbody>
<tr>
<td>M100S4v</td>
<td>4</td>
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<td>48</td>
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</tbody>
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* NOTE - The M100P2 is a VERY low flow pump