



**ENGLISH** 

Datasheet RS Stock No. 9146969

# **RS Pro Brushless Long Life Centrifugal Pump**

### Overview: Long Life Brushless Micro Pump for Liquids

The M400 series range of pumps are driven by a brushless drive motor with built in electronic controller. Constructed from precision CNC machined aluminium alloy with stainless steel tubing connectors and 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 6.0mm (S variants) or 3.2mm (K variants) flexible tubing. A 220mm electrical fly-lead is fitted as standard. A feedback wire is included, which can be used optionally, to measure pump speed/output.

### **Pump Variants**









## Typical Applications

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

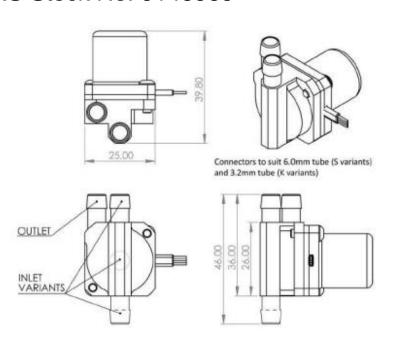
### **Features**

- Brushless drive motor + integral controller
- CNC aluminium alloy construction
- Quiet pulseless smooth flow
- Small size only 41 x 26 x 25 mm
- Weight 32g
- Free flow up to 2600ml per minute (water)
- Usable with solar power, PSU or batteries
- Wide range of chemical resistance

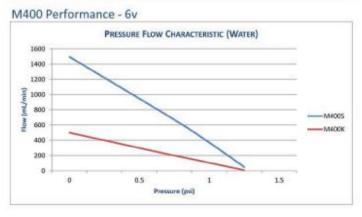




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# M400 Performance - 12v PRESSURE FLOW CHARACTERISTIC (WATER) 3000 2500 2000 1 1500 1 1500 0 0.5 1 15 2 2.5 3 3.5 4 4.5 5 5.5 Pressure (psi)



### Materials

### Wetted Parts

- Anodised 6000 Series Aluminium
- 316 Stainless Steel
- Viton or EPDM
- Polyacetal

#### Other

Materials typical to a Brushless Motor

### Performance Data

Small Size

25 x 26 x 40mm

Weight

32-24 g

Operating Temp

-20 to 100 deg C

Smooth Pulseless Flow

• IP Rating - Standard pumps

IP45

Waterproof pumps

IP67

Noise Levels

<3dB

Measured at a distance of 1m with a 50dB ambient noise level

MTBF Stock Pumps

10,000hrs

Special variants available to order

>10,000hrs

Variant	Input (V)	Power (W)	Flow (ml/min)	Pressure (m8ar)
12	7.1	2685	380	
M400K	6	1.2	500	86
	12	5.8	1150	380