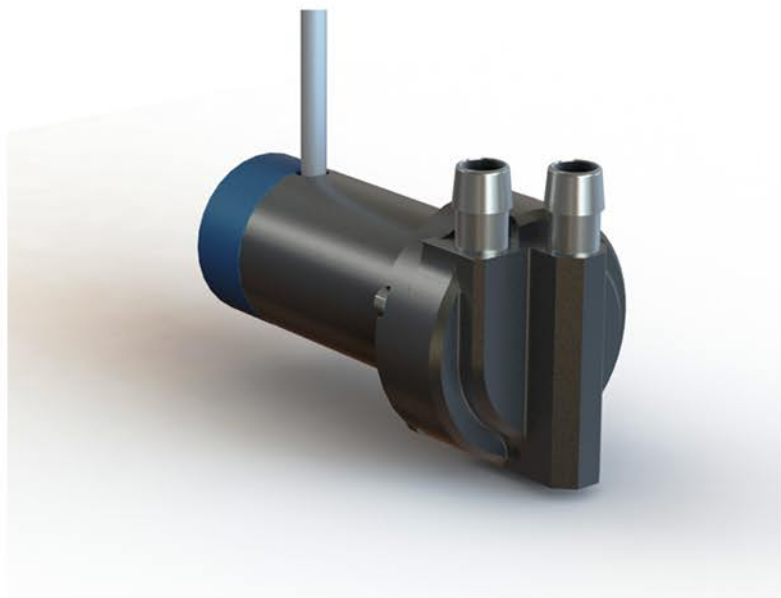


Micro Centrifugal Liquid Pump Range

Overview : Long Life Brushless Micro Pump for Liquids

The MD450 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 barbed connectors designed for 6.0mm (S variants) or 3.2mm (K variants) flexible tubing. Fitted with a fly-lead for the electrical connection as standard.

Pump Variants



MD450S - Standard pump suitable for most applications



MD450K - Standard pump for small bore tubing



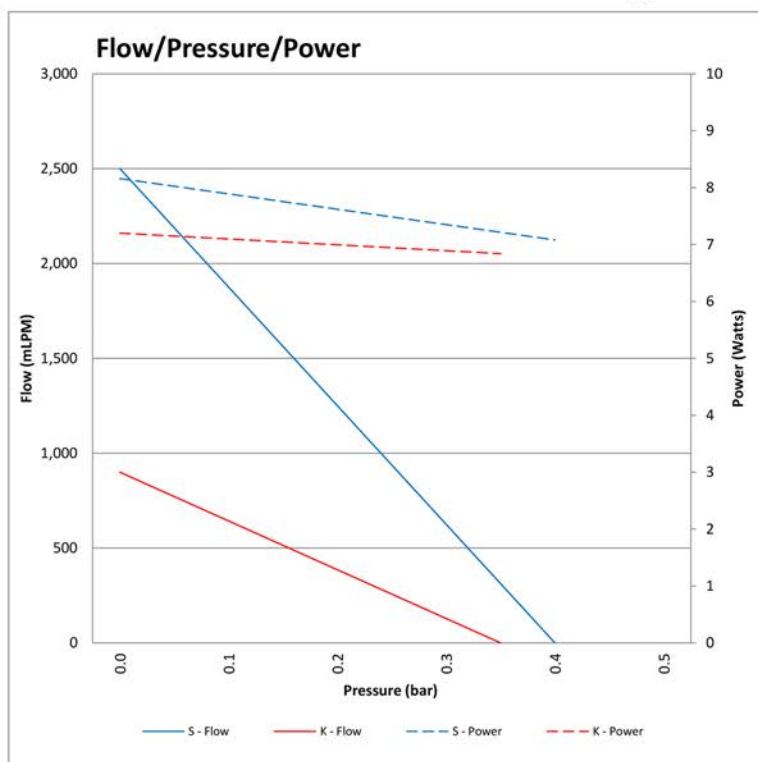
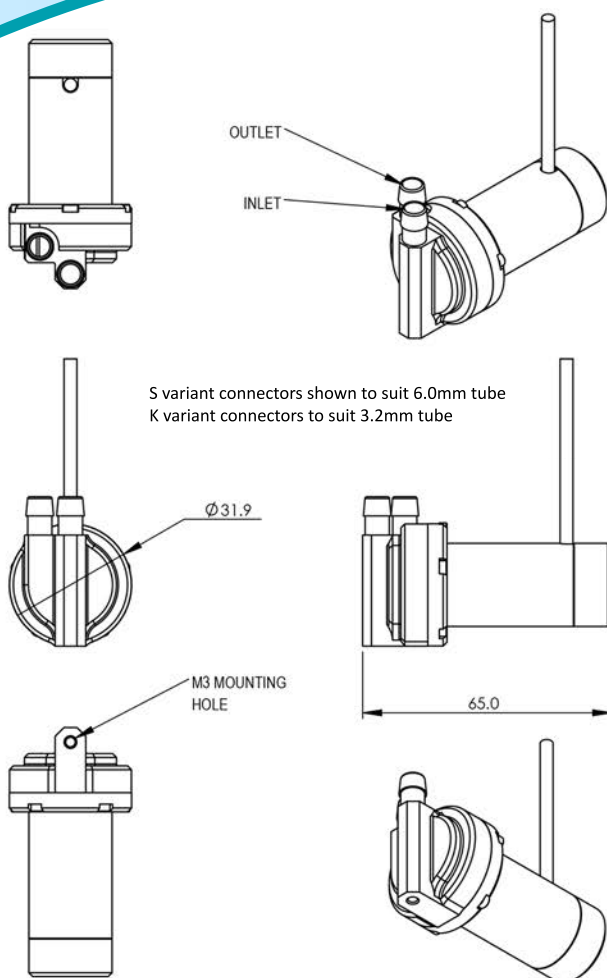
MD450M - For directly mounting to your equipment

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 32 x 32 x 65 mm
- Weight (S,K) - 87g (M) - 132g
- Free flow up to 2600ml per minute (water)
- Usable with solar power, PSU or batteries
- Wide range of chemical resistance



Materials

Wetted Parts

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

Other

- Materials typical to a Brushless Motor

Performance Data

- Operating Voltage 6-12v DC
- Small Size 32 x 32 x 65mm
- Weight 87-132 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 >100,000hrs

MODEL	Input (v)	Power (W)	Flow (mLpm)	Pressure (Bar)
MD450S	12	8.2	2500	0.41
	6	1.3	1200	0.10
MD450K	12	6.8	900	0.35
	6	1.2	360	0.08