



## ***M510 Brushless Micropump***

**RS MICROPUMPS: 8170784, 8170781, 8170772, 1253555, 1253556, 1253557.**

(Patents Pending, Quality Assured ISO 9001, RoHS compliant)

### ***INTRODUCTION***

The RS M510 Micropump is a high-quality miniature pump for liquids. It is highly efficient, small, and lightweight. The solid construction and wide temperature tolerance, enable it to perform reliably even in hostile environments. Your Micropump can be quickly and easily installed into the smallest spaces, in a vast range of laboratory, prototype and production equipment.

### ***ELECTRICAL CONNECTION***

The M510 Micropump is driven by sensorless brushless motor technology and will require an electronic driver circuit to be used (RS 1253555, 1253556 and 1253557 includes the EQi-M brushless driver. RS 8170784, 8170781 and 8170772 are pumps only and require a driver).

3 wire DC Sensorless Brushless Motor  
Supply Voltage: 6-28V (EQi-M)

### ***RS Micropumps Electronic Driver Units***

If a brushless motor controller is not available, then RS recommend the EQi-M driver board.

This is a small lightweight device which are installed in-line with the pump's own wiring.

The EQi-M offers speed and flow control via on-board potentiometer or external 0-4v analogue control with a wide 6-28v input voltage range in which the driver will monitor and govern speed accordingly.

### ***Materials***

Wetted materials include – 316 Stainless Steel, PEEK, Ertalyte, FKM, Ertacetal, Nickel

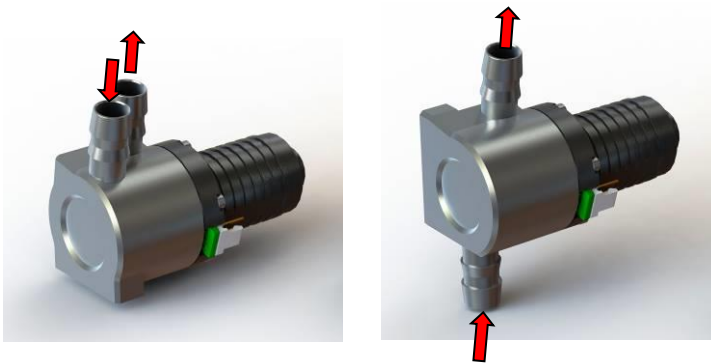


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### ***TUBING & CONNECTORS***

The connectors are designed to accept semi-flexible 8.0mm I.D tubing.

Standard flow direction as shown.



### ***Notes on Operation***

The M510 series Micropumps are required to be filled with liquid (primed) before they can operate.

**DO NOT run your Micropump dry. Ensure that the pump has been primed before use.**

Standard pump IP45 Protection Rating