



M510 Brushless Micropump



TCS MICROPUMPS: M510 (all models)

(Patents Pending, Quality Assured ISO 9001, RoHS compliant, IP44 protection rating)

INTRODUCTION

The TCS 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 in order to be used (not supplied). This can be designed into your own control electronics or you can choose one of the standard control units that TCS manufacture.

3 wire DC Sensorless Brushless Motor
Supply Voltage: 6-24VC

TCS Micropumps Electronic Driver Units

If a brushless motor controller is not available then TCS Micropumps recommend the EQi-M driver board. This is a small lightweight device which are installed in-line with the pump's own wiring. The input voltage can be varied to suit the flow you require.

EQi-M driver - Can be used for supply voltages up to 24v.
See the Accessories page on the website <http://www.micropumps.co.uk>

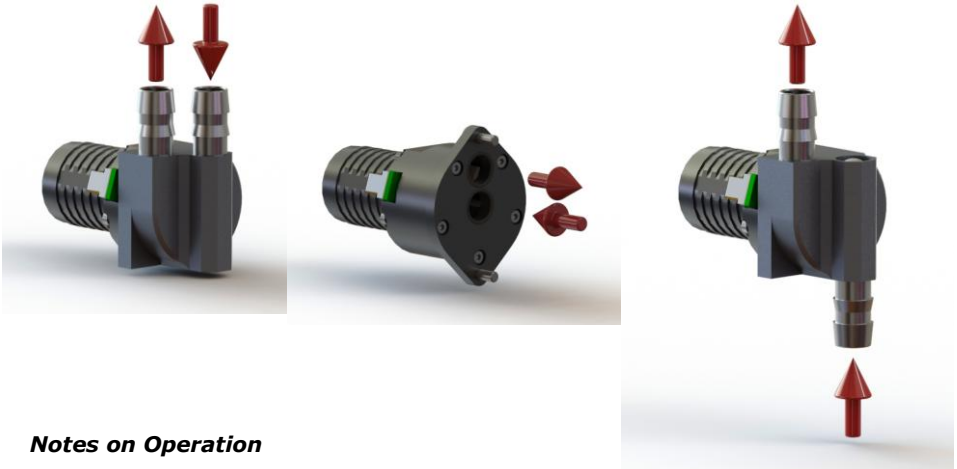
Materials

Housing	Anodised Aluminium
Tubing Connectors	Stainless Steel 316
Impeller	Polyacetal
Seals	Viton

TUBING & CONNECTORS

TCS-606: Flexible tubing 8.0mm bore and a range of various inline connectors are available to order from <http://www.micropumps.co.uk> (see the accessories page on the website)

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 IP44 Protection Rating

Waterproof, IP67 variants are available