



M200M Manifold Mountable Micropump

TCS MICROPUMPS: M200m

(Patents Pending, Quality Assured ISO 9001, RoHS compliant, IP45 protection rating)

INTRODUCTION

The TCS M200M Micropumps are a high-quality miniature pump for liquids. They are highly efficient, small and lightweight. The solid construction and wide temperature tolerance, enable them to perform reliably even in hostile environments. By removing the need for connecting pipes, once integrated into a system they provide a reliable and leak proof solution for a vast range of laboratory, prototype and production equipment.

ELECTRICAL CONNECTION

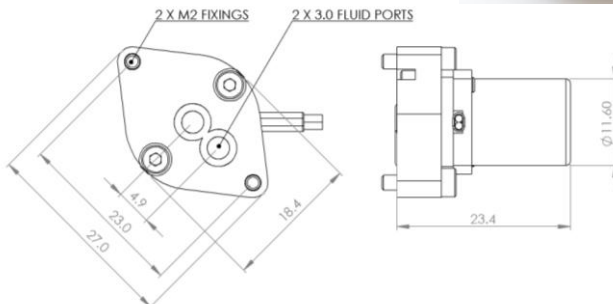
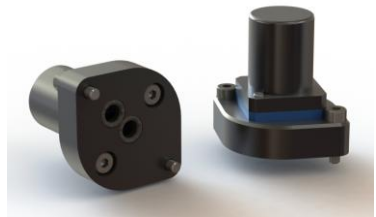
Red + Positive Voltage: 2.0v – 4.5v dc (Nominal 3.0v dc)
Black – Negative

Your micropump can be connected to batteries or a low voltage dc power supply > 600mA. Pumping rate can be fine tuned by varying the input voltage. Micropump life is increased at lower operating voltage/speed.

**DO NOT immerse your Micropump
(unless you have a Waterproof or Submersible version)**

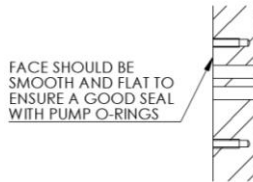
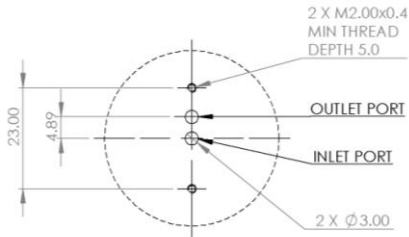
Materials

Housing	Anodised Aluminium
Impeller	Polyacetal
Seals	Viton or EPDM

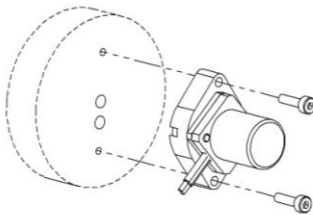


Manifold Design

To install your M200M Micropump the following features need to be incorporated into your manifold design. Note port size 3mm



SECTION A-A



DESIGNED FOR USE WITH: -

2 X M2 FIXING SCREWS
2 X 3.0ID - 1.0 WALL O-RINGS
(SUPPLIED WITH THE PUMP)

Notes on Operation

The M200M Micropumps require the pump and suction side of the fluid circuit to be filled with liquid (primed) before they can operate. The pump will not operate correctly if any air remains within the fluid circuit.

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

TCS Micropump Performance Data	DC Input Voltage (V)	Current Draw (A)	Power Usage (W)	Pressure (mBar)	Pressure (psi)	Free Flow Rate (ml/min)	Operating Temperature range (C)
M200M	3.0 4.5	0.26 0.41	0.78 1.85	65 155	0.9 2.2	270 400	-20 to 120 -20 to 120