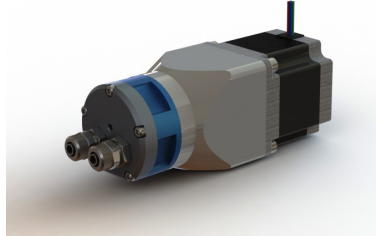


## TCS MICROPUMPS: MG2000-STEP

(Seal less, stepper motor driven gear pump for high pressures and accurate flow)

### INTRODUCTION

The TCS MG2000-STEP Micropump is a high-quality miniature dosing pump for liquids. It is seal less by design and connects the unique and proven TCS Micropumps long life gear pump head unit to a stepper motor via a sealed magnetic drive system.



### ELECTRICAL CONNECTION

The MGD1000S-STEP Micropump is driven by hybrid bipolar stepper motor with 1.8° step angle and will require an electronic driver circuit in order to be used (supplied separately). This can be designed into your own control electronics or you can discuss your requirements with TCS who can offer various technical solutions adjustable to suit many applications.

### MATERIALS

Housing	Anodised Aluminium
Inner body	PEEK
Gears	PEEK
Volute	Ertalyte
Seals	Viton
Drive magnet	Nickel plated

TYPE OF CONNECTION (EXTERN)		MOTOR	
PIN NO	BIPOLAR	LEADS	WINDING
1	A —	BLK	A
2	A1 —	GRN	A1
3	B —	RED	B
4	B1 —	BLU	B1

### TUBING CONNECTION

The pump housing has 2 x G1/8 (1/8th BSP) threaded ports on its front face that are suitable for a wide range of tubing connectors. Supplied with 8.0ID tubing connectors

### NOTES ON OPERATION

- Micropump life is increased at lower operating voltage/speed/pressure.
- It is not advised to run your Micropump when dry for long periods.