

Features

- High pressure capability
- Self-priming
- High and low viscosity fluids
- Reversible flow
- High chemical resistance
- Small size
- No dynamic seal

RS PRO Water Pump

RS Stock No.: 817-0734



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product Description

The MGD1000 series micropump, delivers consistent almost pulseless flow with high or low pressure. They are suitable for a wide range of liquids and are self-priming. The MGD1000 can be used with all common liquids and will also resist most chemicals and solvents. Its flow direction is reversible. The MGD1000 range has 3 different gear variations for different uses. (P) for highest pressure performance, (F) for highest flow performance and (S) for a balance between the two.

These pumps are particularly suitable for systems where pressure and flow consistency are key requirements. Typical applications include Dosing, Medical devices, Fuel cells, High pressure fuel pump, Cooling systems, Precision flow, Lubrication.

The MGD1000 requires a controller to run, NOT included in this package is the EQI-MG1 designed specifically for this pump. The EQI-MG1 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. You can also reverse the flow direction.

General Specifications

Type	Micro External Gear Pump
Maximum Flow Rate	400ml/min
Input Connection	1/8 BSP threads fitted with 6mm ID push fit connectors
Input Connection Size	6.0mm O.D Tubing
Output Connection Size	6.0mm O.D Tubing
Maximum Pressure	10 BAR (RECOMMENDED)
Maximum System Pressure	25 BAR
Wetted materials	316 Stainless Steel, PEEK, PET, Nickel, FKM
Coupling Type	Direct drive, seal-less
Maximum Fluid Temperature	80°C
Head Type	Single
Noise Level	<60db (Measured 1 metre from pump)
Auto On/Off Switch	No
Built-in Water Filter	No

Electrical Specifications

Connection	Requires controller (DC input)
Supply Voltage	6-28v
Input Power	6-28W (0-10 BAR @ 12V)

Mechanical Specifications

Dimensions	30 x 32 x 75 mm
Weight	130g

Protection Category

Safety Category Level	S1
IP Rating	IP 45
Insulation class	A

Approvals

Compliance/Certifications	ISO 9001 Quality Control Standard
Declarations	TCS Declaration of Conformity - RoHS Directive 2011/65/EU, SVCH, CMRT, 3TG and REACH compliant.

Similar Products

Stock No.	Brand	Maximum Flow Rate	Input Connection	Input Power
125-3560	RS PRO	550ml/min	DC	28W
125-3561	RS PRO	1100ml/min	DC	35W
125-3562	RS PRO	400ml/min	DC	28W
125-3568	RS PRO	-	DC	-
817-0722	RS PRO	550ml/min	DC	28W

TEST CONDUCTED ON 10:1 WATER GLYCOL MIXTURE AT 12V USING AN EQI-MG1 CONTROLLER. PUMP HAS BEEN CONTROLLED AND OPERATED VIA 0-4V ANALOGUE INPUT

