US | Solar Pumps®
HOME FOR ALL YOUR MICRO-DC PUMP NEEDS!

MG200 Series

Magnetic Drive Micro Gear Pump
(DC brushless motor, outside controller)

Introduction:

1. This pump features a leak-free magnetic coupling drive, a 316L stainless steel housing, PEEK gears, and PTFE sealing materials. Its compact design incorporates a brushless DC motor, helping reduce the overall size of the unit. An optional built-in pressure relief valve is also available. The pump provides stepless flow rate adjustment for precise control.
2. Pump can be used in the -0.1 Mpa～2Mpa closed systems, the rated output pressure is 0.5 Mpa (medium: water), the maximum output pressure is 1.4 Mpa , output flow rate with 50～3500 ml/min.
3. Widely used in hemodialysis machines, printing machines, pictorial machines, medicine, chemicals, water treatment, cleaning, packaging, filling machines, food processing, and other areas of liquid delivery. These pumps are particularly suitable for printing machines, pictorial machines and barcode machines.



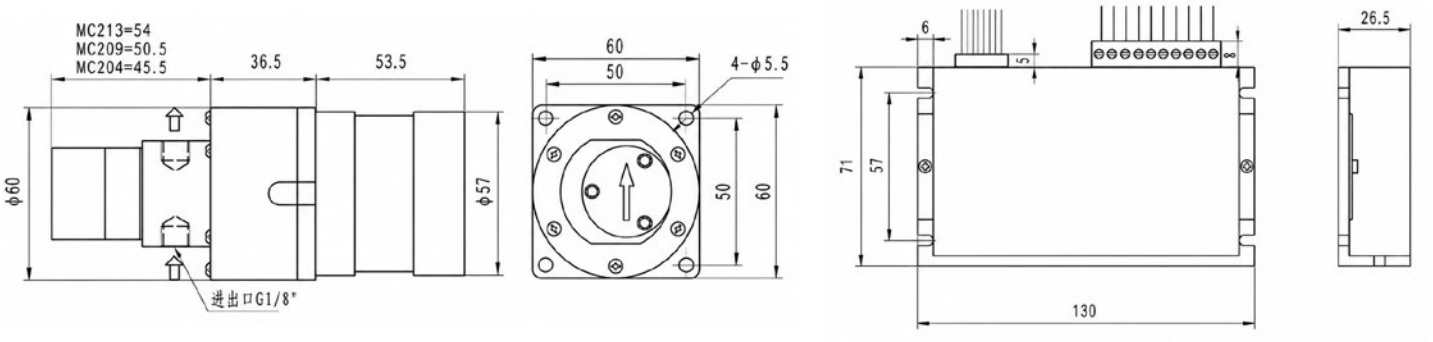
Normal Parameters:

1. Altitude: ≤ 2500 M
2. Environment humidity: ≤ 85%
3. Fluid viscosity: 0 ~ 3000 CPS
4. Ambient temperature: -10 ~ 50°C
5. Fluid temperature: -10°C ≤ T ≤ 100 °C (except for freezing)
6. Operating Mode: Continuous operation
7. Compatible Media: Suitable for handling acids, alkalis, salts, organic
8. Lifetime above 8000hours

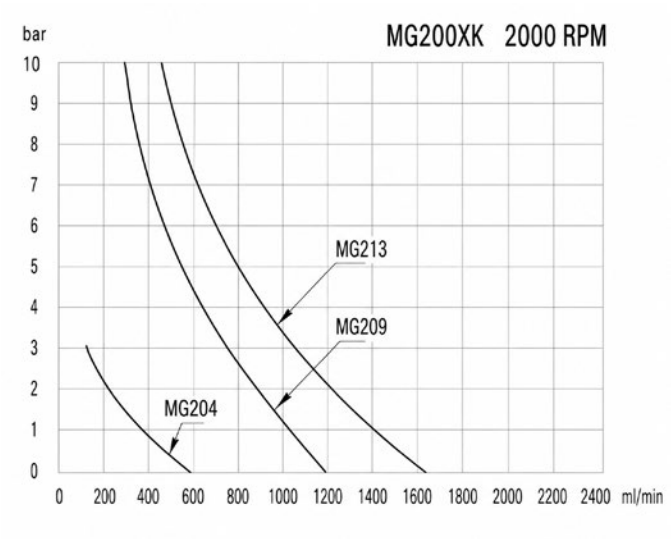
Model	Max Head Pressure (Bar)	Max Flow Scope (ml/Min)	Power (W)	Voltage (V)	Inlet/Outlet Diameter	ml/rpm (reference 3000RPM)
MG204XK/DC24W	7	80-100	60W	DC24	G1/8”	0.27
MG209XK/DC24W	7	150-2500	60W	DC24	G1/8”	0.65
MG213XK/DC24W	7	300-3500	60W	DC24	G1/8”	0.75

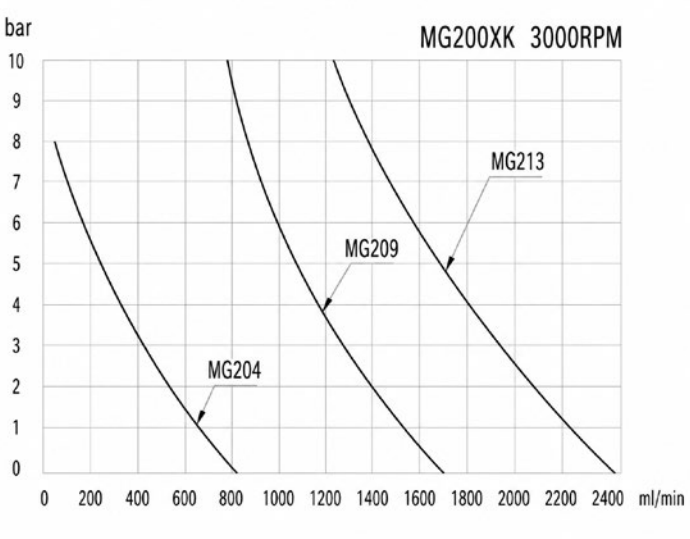
Note: 1. "04" means the gear with the height of 4mm, "09" means 9mm, "13" means 13mm.
2. If needed : "L" limited pressure valve, " R " non return valve , please specially specify in advance.
3. Gear Options: “XK” refers to PEEK gears, while “YT” refers to alloy gears. For liquids containing hard particles, such as pigment inks, YT alloy gears are recommended.
4. Strong Acid and Alkali – “PK” Type: All components that come into contact with the liquid are made from non-metallic, corrosion-resistant materials.

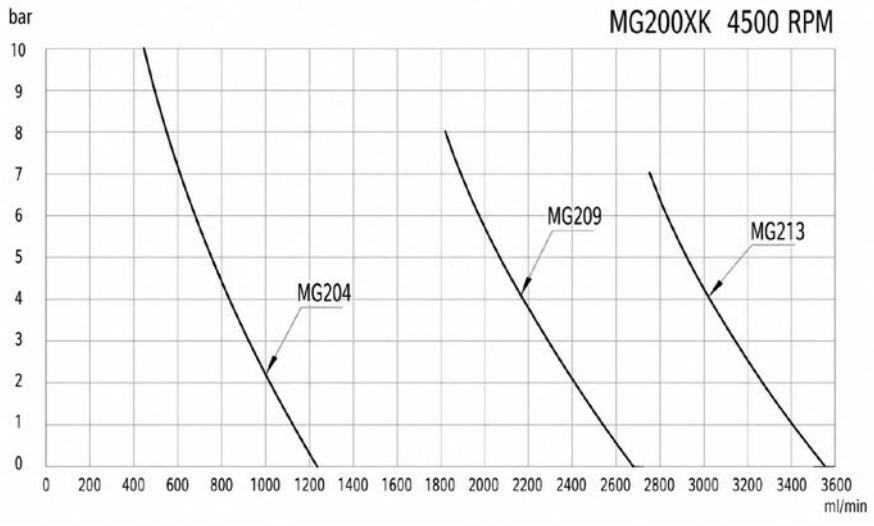
MG200 Series



Detail Curve / DC MG200 Series







Note: Usually suggested to work under 4000RPM, not higher than this.
Above test result basis on the medium of water.