

CLARK MG Gear Pump With DC Motor

0 to 190 LPH

DESCRIPTION

The "MG 200" Series magnet drive gear pumps are compact precision performance products for high technology applications. The magnet drive principle provides a totally sealed pump chamber which is capable of handling a wide range of corrosive liquids with a high degree of safety. The housing of the pump and the internal metal parts are in AISI 316 stainless steel and the gears are available in PTFE or PEEK.

In operation the MG 200 Series pumps are noiseless, pulsation-free and capable of handling relatively hot liquids i.e. 120°C (248°F) at a low coefficient of expansion. The principle of the magnet drive comprises an inner magnet, embodied in the pump, connected to the driving gear and an outer magnet connected to the motor shaft. The pole-to-pole alignment of the magnets provides the driving motion to the pump. Decoupling occurs when the pump load exceeds the coupling torque between the magnets.

In/out ports have 1/8" NPT female threads. A built-in relief valve is available upon request.

TYPICAL APPLICATIONS

- Medical and surgical equipment
- Hemodialysis apparatus
- Exhaust fumes treatment
- Cooling systems
- Ink-jet printing systems
- Water purification and ultra-filtration
- Lubrication
- Seal flush
- Sampling
- Lab instrumentation
- Laser apparatus

ORDERING INFORMATION

1) Order Motor (Select "Drive Type") Separately

MGC4 12 VDC

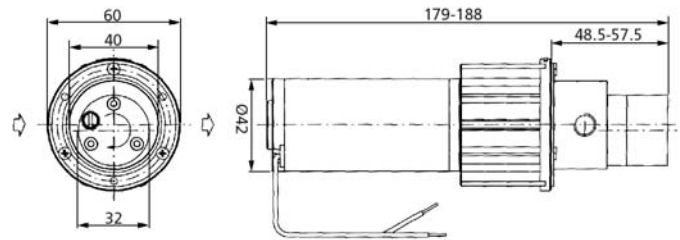
MGC11 24 VDC

2) Build & Order Pump Part Number From Table

EXAMPLE: MG209XPB17

Model	Gear Width	Housing Material Material	Gear & Bushing Valve	Built-in Relief	Connections
MG 2	04=4mm 09=9mm 13=13mm	X=Stainless Steel(316)	P=PEEK	B=Yes S=No	17= 1/8" NPT Threaded in-line

Above order combinations typically ship from stock



SPECIFICATIONS

Temperature ranges :

PTFE : -45°C (-49 F) / + 50°C (+122 F)

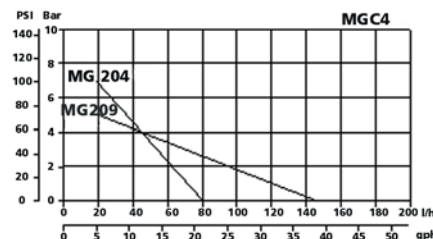
Ryton : -45°C (-49 F) / + 95°C (+203 F)

Peek : -45°C (-49 F) / + 120°C (+248 F)

Max system pressure : 20 bar (290 psi)

Temperature requirements different from ambient temperature must be mentioned on the order

Drive type	MGC4	MGC11
Voltage (V)	12 DC	24 DC
Rated speed (rpm)	3.300	3.000
Current consumption (A)	3.4	1.5
Output power (W)	25.9	23.6
Nominal torque (Ncm)	7.5	7.5
Weight (g)	500	500



Notes: Characteristics with water at 20°C and without bypass, max vacuum 724 mm Hg.

Use filter before pump not larger than 20

