

Fluid-o-Tech MGC DC series



The “MG200” Series magnet drive gear pumps are compact precision performance pumps 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 pump housing is available in AISI 316L, SAF 2205 or AISI 303. The gears are available in PTFE or Peek™.

In operation the MG200 Series pumps are quiet, pulsation-free and capable of handling relatively high temperature liquids i.e. 120°C (248°F) with a low coefficient of expansion.

The principle of the magnetic drive comprises an inner magnet embodied in the pump and connected to the driving gear, and an outer magnet connected to the motor shaft. The pole-to-pole alignment of the two magnets provides the driving motion to the pump. Decoupling will occur when the pump load exceeds the coupling torque between the magnets.

- + 1/8” NPT or GAS ports
- + Relief valve available upon request

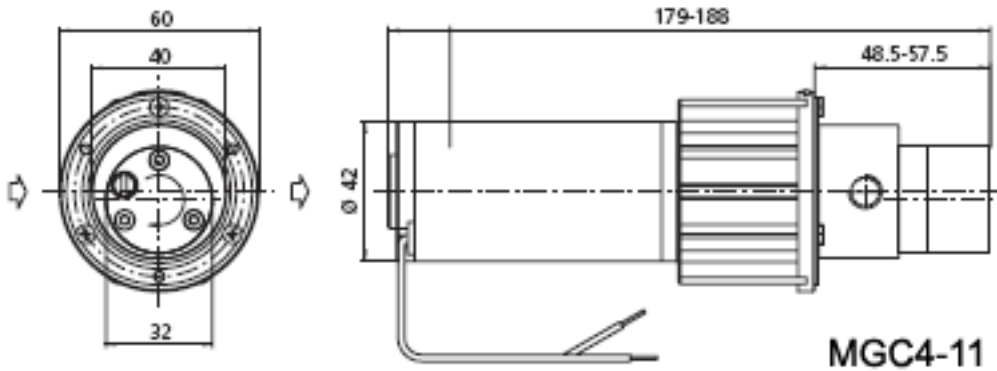
Main Applications

- + Medical and surgical equipment
- + Hemodialysis apparatus
- + Seal flush
- + Laser apparatus
- + Lubrication
- + Ink-jet printing systems
- + Cooling systems
- + Laboratory instrumentation
- + Water purification and ultra-filtration
- + Sampling
- + Food processing equipment

Technical Specification

Composition / materials			Operating range	
Housing	Gear	Seal	Temp range	Max pressure
316 L SS	PTFE	PTFE	45 to +50°C / -49 to +122°F	20 bar / 290 psi
316 L SS	Peek™	PTFE	45 to +120°C / -49 to +248°F	20 bar / 290 psi

	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
Pump motor weight (g)	500	500



Performance Data

