

CLARK**MG200 Gear Pump With AC Motor or NEMA 56C Coupling**

Flow to 200 LPH, Pressure to 9 bar

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. 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.

Models are offered with a selection of AC motors or with 56C frame adaptor couplings with drive magnet.

SPECIFICATIONS

Flow Range: Three pump sizes- 4 mm, 9 mm or 13 mm gears, see flow charts (Fig. 1)

Temperature ranges :

PTFE : -45°C (-49 F) / + 50°C (122F)

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

**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 instruments
- Laser apparatus



Max system pressure : 20 bar (290 psi)
 Rotational Speed Limit: 5000 rpm
 Priming With Water: 8m (26.7 ft), varies with operating conditions and fluid characteristics
 Max Vacuum: 724 mm Hg (28.5" Hg)

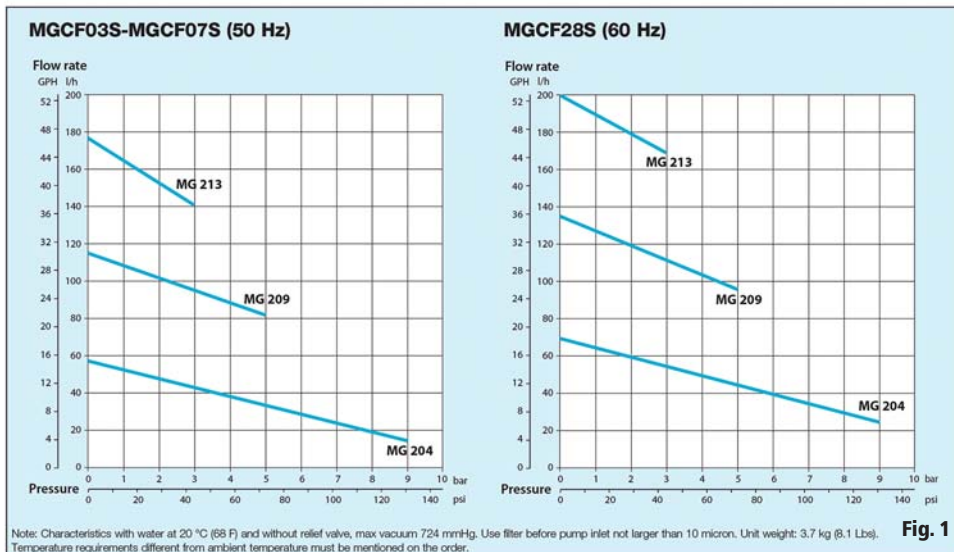
FLOW WITH STANDARD PUMP HEADS & MOTORS

Fig. 1

Table 1 AC Motor Coupling Components			
Item	Description	Note	Order Code
M56B14 Motors			
A	Ferrite Drive Magnet	For 9 mm bore	MGAF09S
A+B	Complete Adaptor	For M56B14 Motor	MGBF56S
A+B+C	Complete Motor Assembly	See Table Below	MGCF03S MGCF07S MGCF28S
NEMA 56C Frame Motor Adaptor			
A	Ferrite Drive Magnet	For 5/8 bore	MGAF5BC
A+B	Complete Adaptor	For NEMA 56C	95-05-08

Table 2	Motor Assembly		
	MGCF03S	MGCF07S	MGCF28S
Voltage	230 VAC, Single Phase	230/400 VAC, Three Phase	110 VAC, Three Phase
Frequency (Hz)	50	50	60
Poles	2	2	2
Rated Speed (rpm)	2610	2780	3550
Current Consumption (A)	1.1	0.42	1.27
Output Power (W/HP)	110/.147	130/.175	110/.147
Operation	Continuous	Continuous	Continuous
Weight (Kg/lb)	3.3/7.28	3.3/7.28	3.5/7.72

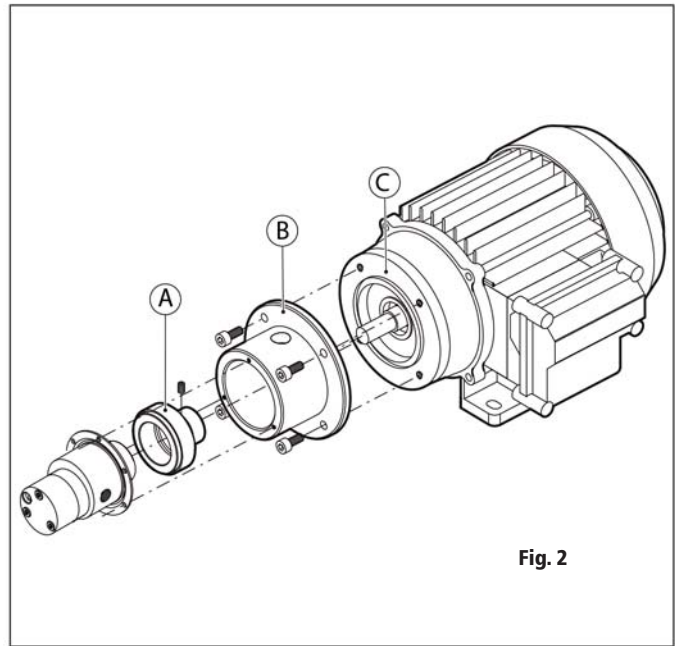


Fig. 2

DIMENSIONS

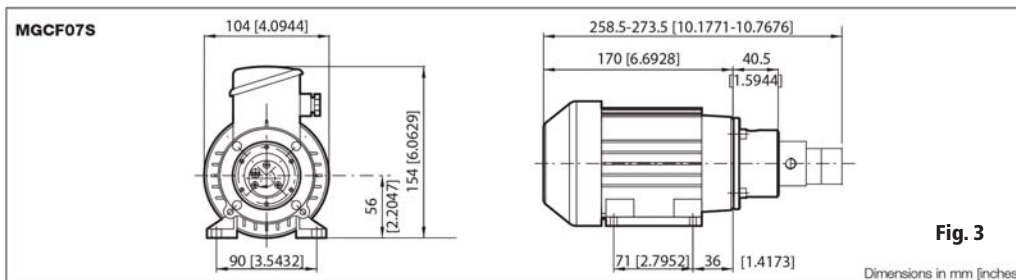
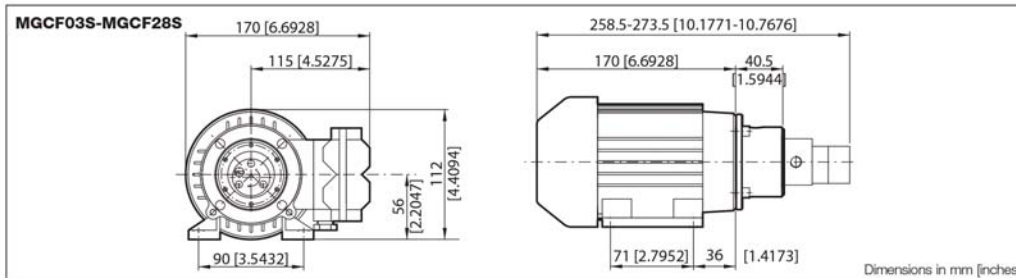


Fig. 3

ORDERING INFORMATION

- Order Complete Motor Assembly or Motor Coupling Components (if supplying motor separately) per Tables 1 & 2
Example: MGCF28S
- Order Pump Per Table 3: ABCDEFG
Example: MG204XD1PT

Table 3

A Pump Model	B Gear Width	C Housing Material	D Connections	E Relief Valve	F Gear Material	G Static Seal
MG2= Ferrite Magnet, PTFE Flat Seal	04= 4 mm 09= 9 mm 13= 13 mm	X= 316 SS	D= 1/8" NPT	1= Yes 0= No	P= PEEK T= PTFE	T= PTFE