

# FGS Series 12V and 24V BLDC electromagnetic drive gear pump-motor unit

This integration of the well known MG Series magnetic drive gear pumps with a 24V BLDC motor which drives directly the internal magnet of the pump, allows a significant space saving as well as a more balanced, silent and safe operation.

The motor, available with or without integrated electronic control, has been designed to operate at an extended voltage and speed range and with increased power and better efficiency compared to the traditional FG series to provide maximum flexibility.



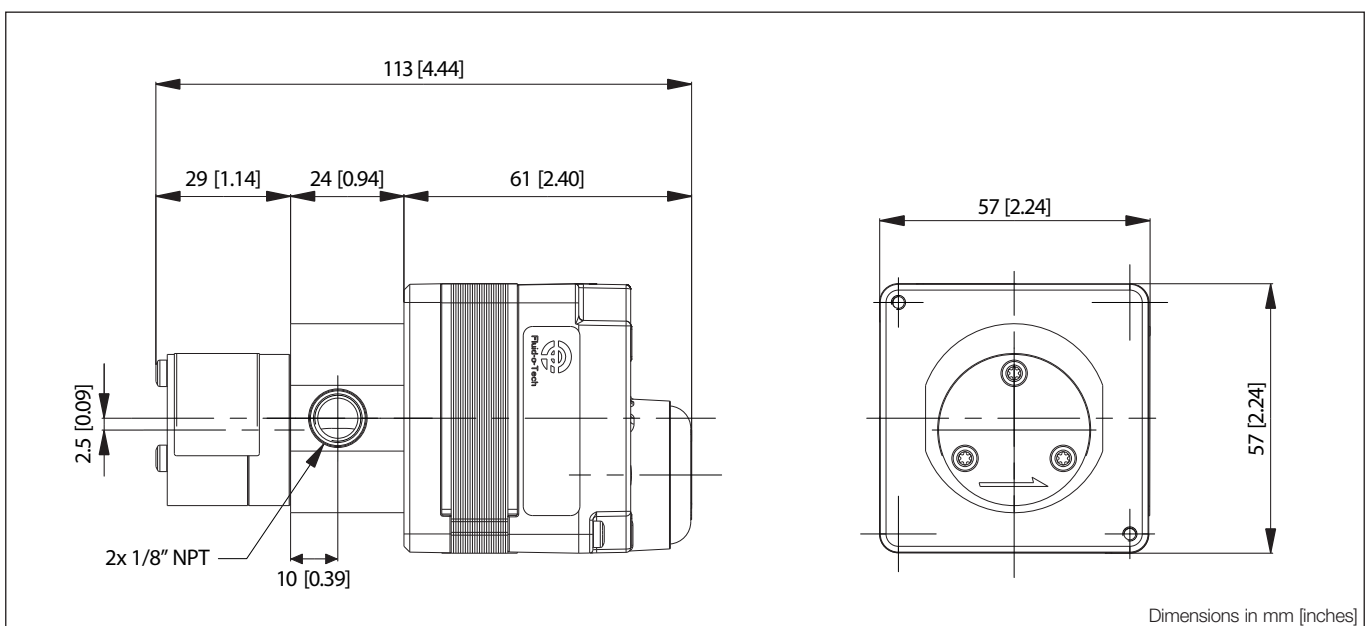
## MAIN APPLICATIONS

- Medical Devices
- Food Service Equipment
- Thermal Management

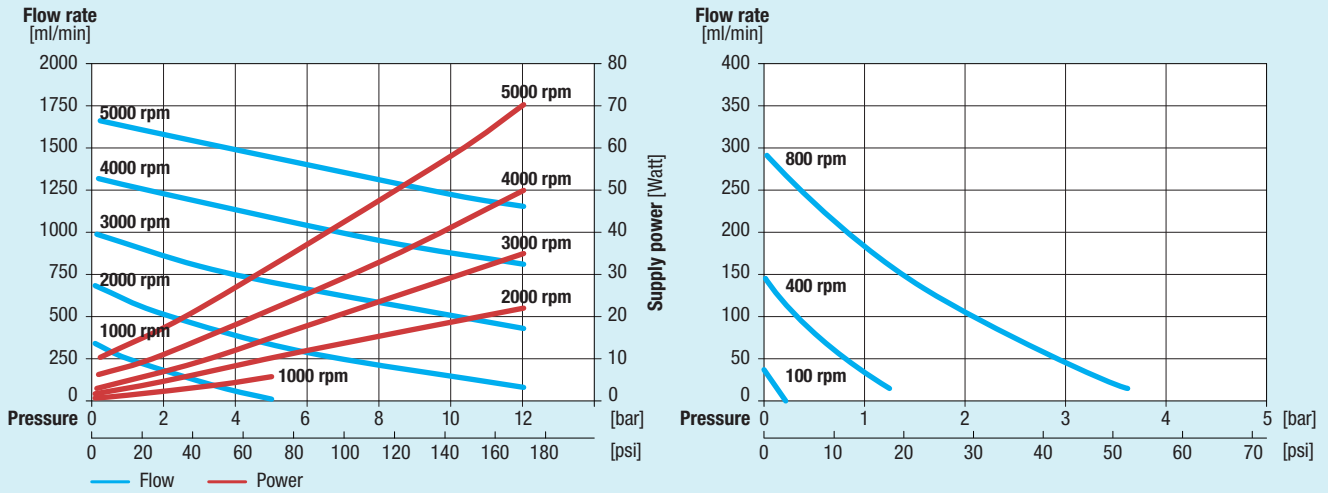


## TECHNICAL INFORMATION

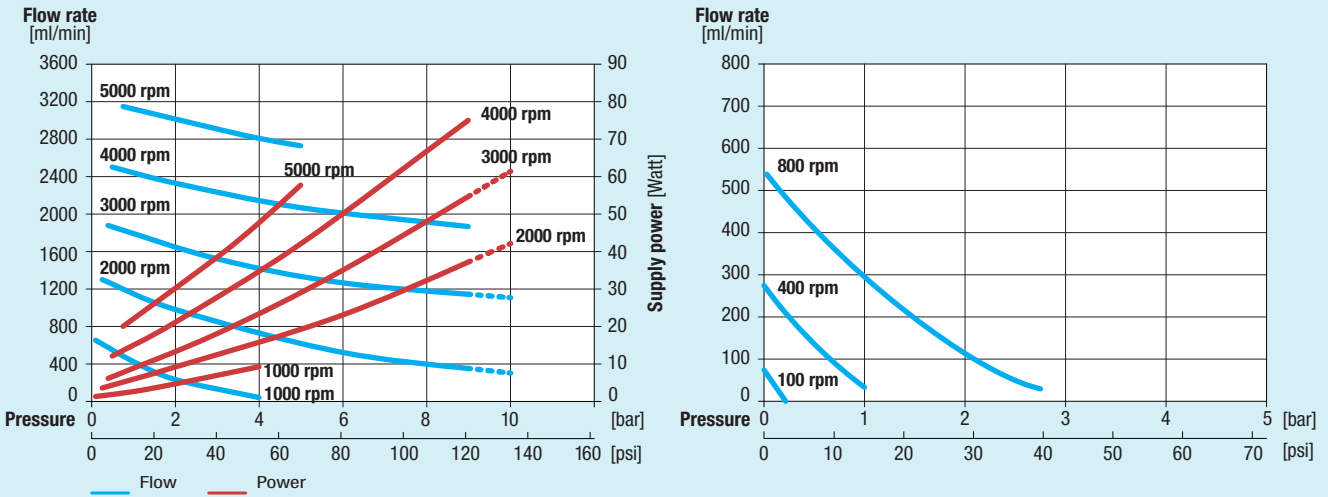
Power supply	12V and 24V	Analog inputs interface	Voltage 0÷10V or Current 4÷20mA
Motor speed range	100 ÷ 5.000 RPM	Digital input interface	Freq. and duty cycle + gen. purpose
Motor Torque under continuous duty	140 mNm	Digital output interface	Tacho + gen. purpose
Motor Power under continuous duty	55 W	Communication interface	RS485 MODBUS
Ambient temperature Continuative	40 °C (-20 ÷ 70 °C)	Protection	IP65



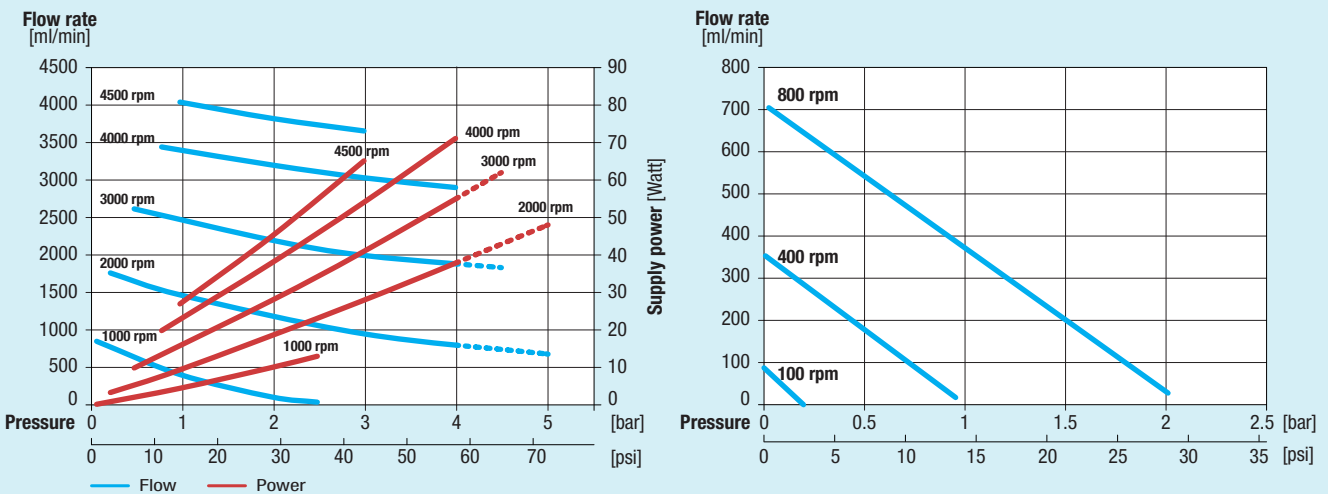
**FGS204-FGS304 (0.3 ML/REV)**



**FGS209-FGS309 (0.6 ML/REV)**



**FGS213-FGS313 (0.9MLREV.)**



Note: Characteristics with water at 20 °C (68 F). Fluids different from water must be validated by the Customer. Temperature requirements different from ambient temperature must be mentioned on the order. Use a filter before the pump inlet no larger than 10 micron. Below 22V power supply, there will be a performance derating for higher speeds. Working points within the dotted curve areas are to be validated by Fluid-o-Tech.

Fluid-o-Tech reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.

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