

The FG100 series, born from the long experience in mag drive external gear pumps, provides a smart and compact unit which finds easily its location in most machines. The pump housing is in stainless steel and the non-metallic parts have been selected to comply with the most strict sanitary requirements.

The electromagnetic drive delivers a smooth transmission of the rotation, little or no noise and a leak free unit, while the integrated electronic allows for the 24V brushless DC heart of the FG100 to be controlled directly from the logic of the machine. Complete flexibility, dispense after dispense. The FG100 series combines the external gear pump technology taken to its perfection and a brushless DC motor in a rotor less configuration. This ensures a top performance with an exceptionally long service life.



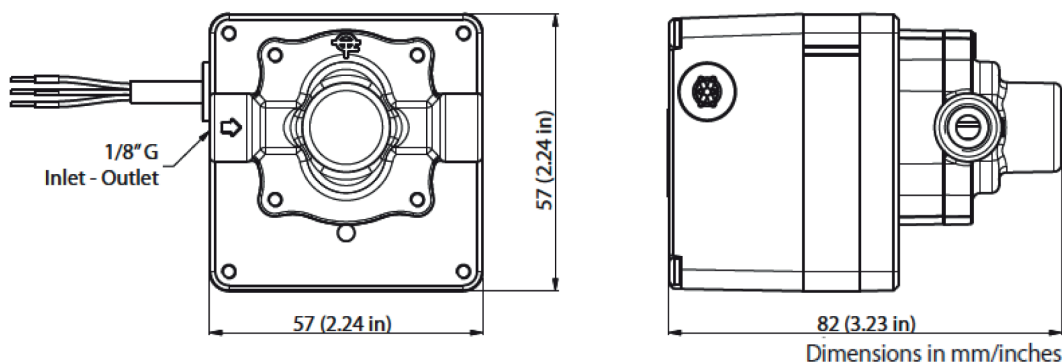
### TECHNICAL INFORMATION

Pump housing material	AISI 316L or PPS	Speed range	from 300 to 5000 rpm
Gears and bushing material	Peek/PTFE	Motor IP protection	IP 52
Ports	1/8" GAS or NPT	Unit weight	AISI 316L 910g/2lb - PPS 550g/1.2lb
Max vacuum	724 mmHg/28.5 inHg	Motor type	50 W
Wet lift with water*	~ 8 m/26.2 ft	Insulation class	24 V BLDC
Max static pressure	20 bar/290 psi	Max output power	F

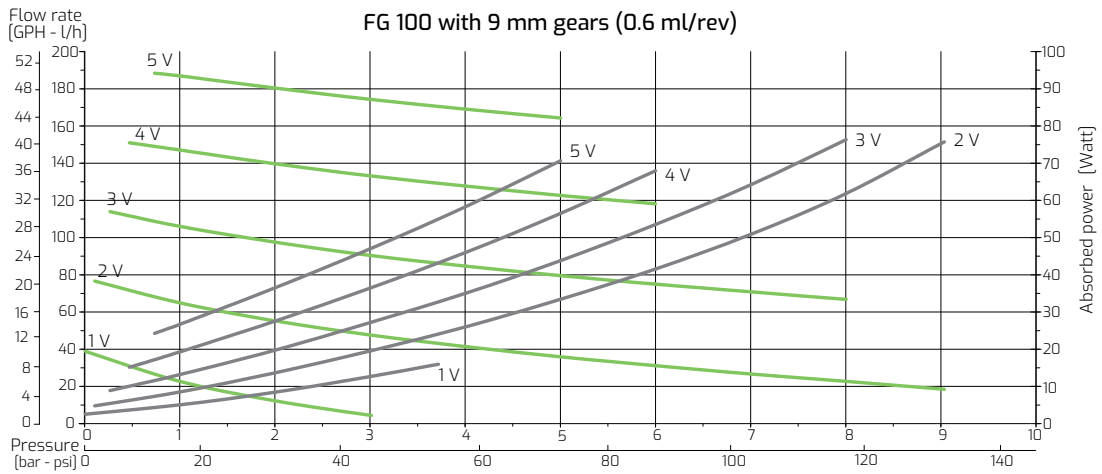
### OPERATING RANGE

Max ambient temperature	95 °C/203 F	70 mNm/9.9 in-oz at 3500 rpm	100 mNm/14.1 in-oz at 3500 rpm
Fluid temperature	30 mNm/4.2 in-oz at 5000 rpm	55 °C/131 F	40 °C/104 F
Min ambient temperature	40 °C/104 F	70 °C/150 F	40 °C/104 F
Max torque		5°C/41 F	

### DIMENSIONS



**PERFORMANCE CURVES**



Note: Characteristics with water at 20 °C (68 F) and without relief valve. Fluids different from water must be validated by the Customer. Temperature requirements different from ambient temperature must be mentioned on the order. Different materials are available upon request. Use a filter before the pump inlet no larger than 10 micron. Fluid-o-Tech reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.

MAGNET DRIVE GEAR PUMPS  
FG 100 series

PERFORMANCE CURVES

