Magnet drive gear pump-motor units FG100 series

The Fluid-o-Tech® 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.



MAIN APPLICATIONS

- Espresso coffee machines
- Food processing equipment
- Laser apparatus
- Lubrication
- Medical equipment
- Cooling systems
- Laboratory instrumentation
- Water treatment
- Sanitization

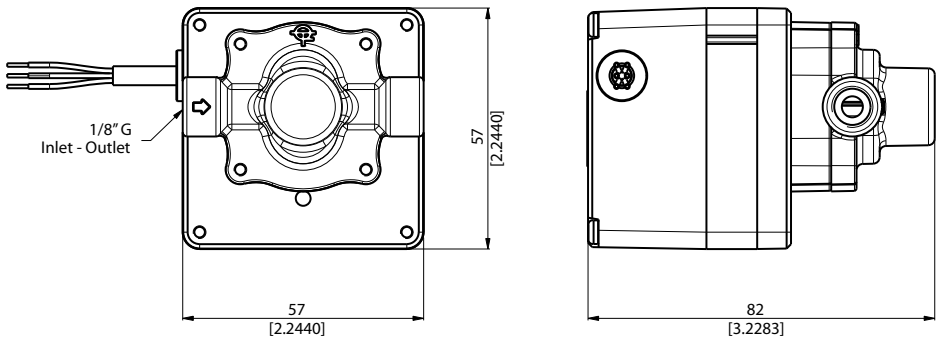
TECHNICAL INFORMATION

Pump housing material	AISI 316L	Motor type	24V BLDC cw e ccw direction
Gears and bushing material	Peek	Speed range	from 500 to 5000 rpm
Ports	1/8" GAS	Max output power	60 W
Max static pressure	20 bar/290 psi	Motor IP protection	IP 52
Max vacuum	724 mmHg/28.5 inHg	Insulation class	F
Wet lift with water*	~ 8 m/26.2 ft	Unit weight	675 g/1.5 lb

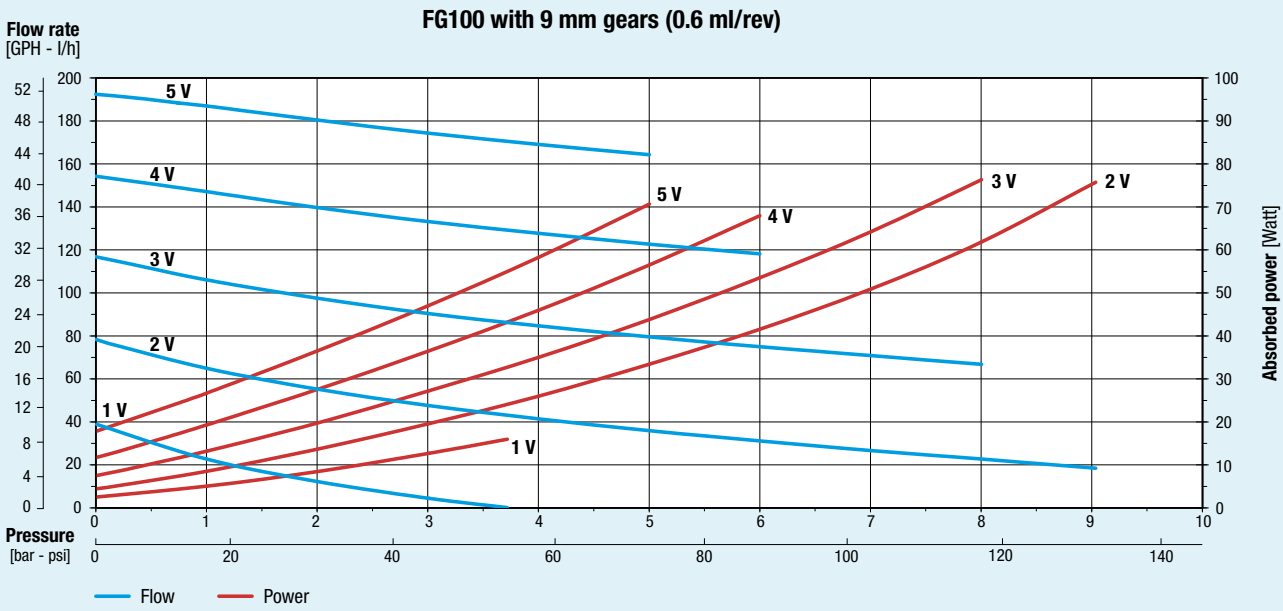
* Priming ability varies with operating conditions and fluid characteristics

OPERATING RANGE

Max ambient temperature	40 °C/104 F	70 °C/150 F	40 °C/104 F
Fluid temperature	95 °C/203 F	55 °C/131 F	40 °C/104 F
Max torque	30 mNm/4.2 in-oz at 5000 rpm	70 mNm/9.9 in-oz at 3500 rpm	100 mNm714.1 in-oz at 3500 rpm
Min ambient temperature	5 °C/41 F		



Dimensions in mm [inches]



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.

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