

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.

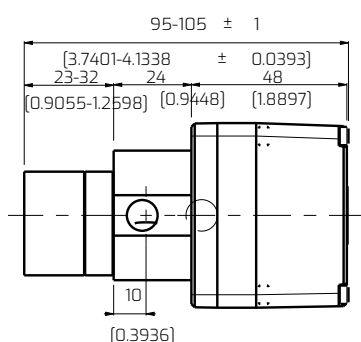
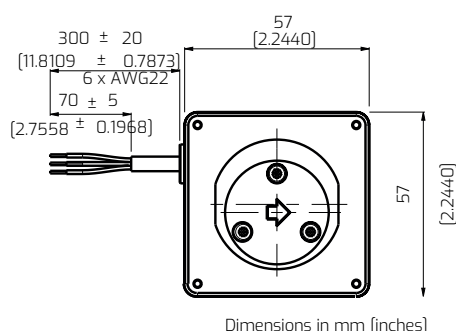
The electromagnetic drive delivers a smooth transmission of the rotation, little or no noise and a leak free unit, while the integrated electronic allows for the 24V brushless DC heart of the FG100 to be controlled directly from the logic of the machine. Complete flexibility, dispense after dispense. 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**

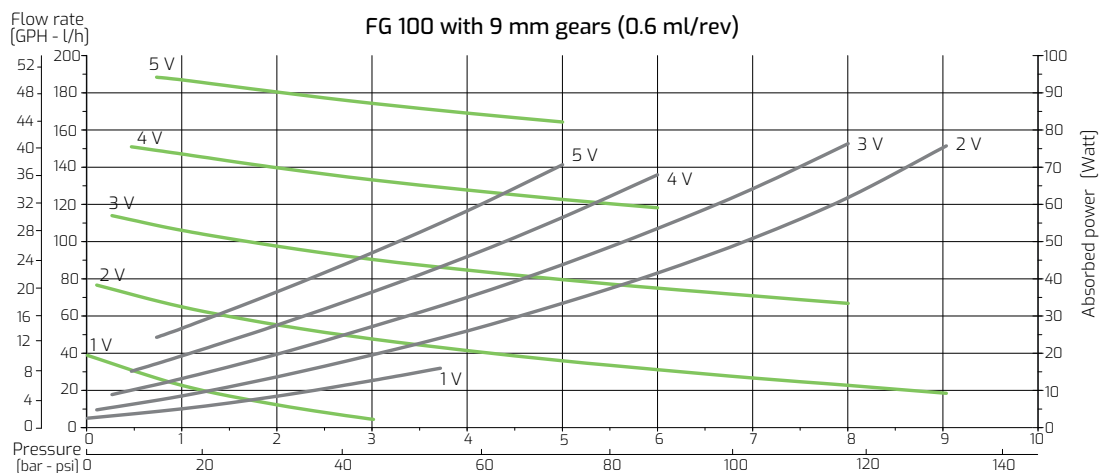
|                            |                    |                     |                                     |
|----------------------------|--------------------|---------------------|-------------------------------------|
| Pump housing material      | AISI 316L or PPS   | Speed range         | from 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.