

Gear Pump

LabGV, LabGF, LabGN, LabGM



Features

- With ABS engineering plastic housing, streamlined body design.
- Brushless DC motor with high efficiency and maintenance free features.
- The pump head is compact type, stainless steel material, driven by magnetic, low noise, no pulsation.
- Suitable for transferring viscous, high temperature and high pressure liquid.

Model Number

- LabGN, LabGV, LabGF, LabGM

Typical Application

- Mainly for laboratory.

Technical Specifications

| | | | |
|--|---|-------------------------|--|
| Speed range | 100–3000 rpm | Communication interface | RS232, RS485 support MODBUS protocol(RTU mode) |
| Testing time range | 0.1s–9999h | Power supply | AC 220V ± 10% 50Hz/60Hz(standard) AC 110V ± 10% 50Hz/60Hz(optional) |
| Outlet pressure | ≤0.5Mpa | Drive dimension | 261.4 × 157.3 × 236.9mm |
| Motor type | DC brushless motor | Drive weight | 4.40kg |
| Can transfer liquid which include granules | Granule ID ≤ 20 μ m | Power consumption | <100W |
| Can transfer viscous liquid | Viscosity ≤ 200cSt | Condition temperature | 0–40°C |
| External speed control signal | 0–5V, 0–10V, 4–20mA for option | Relative humidity | <80% |
| Start/stop | Passive switch signal, such as foot pedal | IP rate | IP31 |
| | Active switch signal: 5V, 12V, 24V for option | | |

| Drive | Model | Display | Operating mode | Function | Motor Status Output Interface |
|-------|-----------------------------|---------------------------------------|--|---|-------------------------------|
| LabGV | Intelligent flow rate type | 4.3"–industrial–true color LCD Screen | Touch screen + Mechanical keypad | Flow rate/motor speed display, Fixed time and volume, Fixed volume measurement, Timer start and stop functions. | open–collector output |
| LabGF | Intelligent dispensing type | 4.3"–industrial–true color LCD Screen | Touch screen + Mechanical keypad | Input dispensing volume, dispensing time, copy numbers, for accuracy filling | open–collector output |
| LabGN | Standard type | 3.2" LCD Screen | Mechanical keypad | Motor speed and setting datas display in the same screen, used for common transferring, support simple dispensing(0.1s–9999h) | open–collector output |
| LabGM | Basic type | 4 digital LED | Mechanical keypad | Display motor speed, used for common transferring, support for simple dispensing (0.5s–999s) | No |

| Drive | Pump Head | Gear Material | Flow Rate mL/min | Output Rated Pressure(Mpa) | Fluid Temperature |
|----------------------------------|----------------|---------------|------------------|----------------------------|-------------------|
| LabGV LabGF LabGN LabGM | MG204XD0PT0000 | PEEK | 27.7 ~ 830 | 0.5 | –30 ~ 100(°C) |
| | MG204XD0TT0000 | PTFE | 27.7 ~ 830 | | –30 ~ 50(°C) |
| | MG209XD0PT0000 | PEEK | 56.67 ~ 1700 | | –30 ~ 100(°C) |
| | MG209XD0TT0000 | PTFE | 56.67 ~ 1700 | | –30 ~ 50(°C) |
| | MG213XD0PT0000 | PEEK | 80 ~ 2400 | | –30 ~ 100(°C) |
| | MG213XD0TT0000 | PTFE | 80 ~ 2400 | | –30 ~ 50(°C) |

