

# 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 ≤ 20µm	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 Active switch signal: 5V,12V,24V for option	IP rate	IP31

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 data 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	MG204XD0PT0000	PEEK	27.7 ~ 830	0.5	-30 ~ 100(°C)
	MG204XD0TT0000	PTFE	27.7 ~ 830		-30 ~ 50(°C)
LabGF	MG209XD0PT0000	PEEK	56.67 ~ 1700		-30 ~ 100(°C)
LabGN	MG209XD0TT0000	PTFE	56.67 ~ 1700		-30 ~ 50(°C)
LabGM	MG213XD0PT0000	PEEK	80 ~ 2400		-30 ~ 100(°C)
	MG213XD0TT0000	PTFE	80 ~ 2400		-30 ~ 50(°C)

