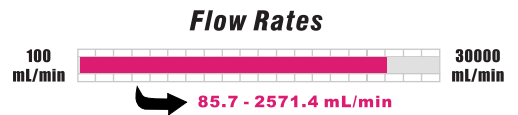


WT3000-1JA Micro Gear Pump

WT3000-1FA



Applicable Pump Heads

MG204
MG209
MG213



Instruction

WT3000-1FA micro gear pump has two work modes of flow mode and dispensing mode. It delivers flow rates from 85.7 to 2571.4 ml/min and dispensing volume is from 0.1 mL to 999L. 128 × 32 LCD displays the parameters and information. The compact and precise gear pump heads are noiseless, pulsation-free and suitable to transfer high temperature and high pressure fluids.

WT3000-1JA can install variable pump head to provide flow rates from 85.7 to 2571.4 ml/min, it adopts brushless DC motor and has features of high efficiency and free maintenance.

Specifications

Specifications	WT3000-1FA	WT3000-1JA
Flow rates	85.7-2571.4 (mL/min)	
Speed	300-3000 (rpm)	
Speed accuracy	± 1.0%	
Speed resolution	1.0 rpm	
Dispensing volume	0.1mL to 999L	No dispensing function
Copy number	0-9999, 0 means unlimited cycle	
Pause time	1second to 999 hours, resolution is 0.1s	
Calibration time	30 to 1800 second, resolution is 1s	
Communication interface	RS485	
Diameter of particle in liquid	≤ 10μm	
Max. Outlet pressure (Testing medium is water)	MG204 : 0.8MPa	
	MG209 : 0.8MPa	
	MG213 : 0.3MPa	
Liquid temperature	-45 to 50℃ with PTFE gear, -45 to 120℃ with PEEK gear	
Viscosity of liquid	≤ 200 cSt	
Power supply	AC 176-264V/90-130V, 50/60 Hz	
Power consumption	≤ 50W	
Operating condition	Temperature 0 to 40℃	
	Relative humidity < 90% (non-condensing)	
Drive dimensions	232×142×149(mm) (L×W×H)	
Weight	2.83 kg	
IP rating	IP31	

Functions and Features

- Acceptable pump head: MG204, MG209, MG213
- Suitable to transfer high temperature fluids or high pressured fluids.
- Prime function for fast filling and emptying
- Flow rates and dispensing volume can be calibrated for higher accuracy (WT3000-1FA)
- Display: 128 × 32 LCD display all the running parameters (WT3000-1FA)
- External control input functions: Control the flow rates and start/stop of the pump
- External control output functions: Output start/stop and speed signal (WT3000-1FA)
- Dispensing function: Dispensing volume, copy number and pause time can be set (WT3000-1FA)
- Footswitch: Control the start/stop of the pump
- Communication function: Realize computer control through RS485 interface
- Memory function: Store the running parameters automatically
- Cooling code: Heat-emitting fan
- Decoupling will occur when the pump load exceeds the maximum coupling torque provided by the alignment of the two magnets

Drive	Part Number	Pump Head	Speed (rpm)	Flow Rates (mL/min)	Weight (kg)
WT3000-1JA	0502701	MG204	300-3000	85.7-857.1	3.25
WT3000-1FA	0502711	MG209		171.4-1714.3	3.26
		MG213		257.1-2571.4	3.28