

Gear Pump Product Technical Specification

1 Product Model: T3000-W3

2 Product Main Structure: Brushless DC Servo Integrated Machine & Gear Pump Head

3 Product Functions:

3.1 Compatible gear pump head models: MS204XD0PT00000, MS209XD0PT00000, MS213XD0PT00000

3.2 Speed Control: External analog signal 0-5V

3.3 Start-Stop Control: Digital On/Off Signal, Short the signal wire and common terminal to run and disconnect to stop

4 Product Performance Technical Indicators

4.1 Speed range: 18-3000rpm

4.2 Pump Head Reference Flow Range:

MS204XD0PT00000: Flow range: 5.7-857 (ml/min), outlet pressure ≤ 1.4 Mpa

MS209XD0PT00000: Flow range: 11.4-1714 (ml/min), outlet pressure ≤ 0.9 Mpa

MS213XD0PT00000: Flow range: 17.1-2571 (ml/min), outlet pressure ≤ 0.8 Mpa

4.3 Allowable temperature for pump head transmission liquid: $-45\sim 120^{\circ}\text{C}$

4.4 Voltage to Speed Correspondence: 0.03-5V linearly corresponds to 18-3000rpm

4.5 The gear pump can be started and stopped by adjusting the voltage. A value less than 0.03V is in the shutdown state, and a value greater than or equal to 0.03V is in the running state.

4.6 Speed resolution: 1rpm

4.7 Applicable Power Supply: DC24V

4.8 Power consumption: ≤ 100 W

4.9 Operating temperature: $0\text{-}40^{\circ}\text{C}$,

4.10 Relative Humidity: $<80\%$, No Condensation

5 Wire harness definition

Power	BLACK (Thick)	GND	
	RED(Thick)	24VDC+	
Singal	BLCK	COM	Common terminal
	GREEN	SV	Analog input (0.03-5v) 0.03V to 5V linear range maps to 18-3000 rpm
	RED	DIR	Direction Due to the gear pump's mechanical design which prevents reverse rotation.The red and black wires must be permanently OPEN to ensure nomal pump operation
	YELLOW	EN	Short the yellow signal wire and black common terminal to run and disconnect to stop
	BLUE	NC	Reserved interface

- ✧ Note: Due to the structure of the gear pump, it cannot be reversed. Therefore, it is necessary to ensure that the gear pump runs in the direction of the arrow on the pump head. Therefore, the red wire and the black wire must be **OPEN** to ensure normal operation of the gear pump.