

Precision Gear Pump CT3001S/CT3000S

CT3001S/CT3000S adopts brushless motor drive, high performance, low noise, stainless steel, magnetic drive pump head, can be realized without pulsation, constant velocity flow transmission. Digital display, key operation, easily set parameters. Speed display, time dispensing, suitable for various experimental fields. A variety of external control way, convenient use together with other devices, support MODBUS protocol communication, simplify the difficulty of system development.



CT3001S CE

Feature

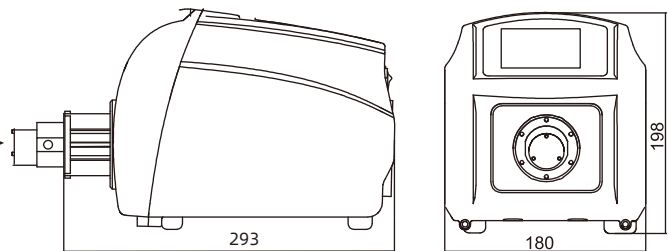
- Can install various pump heads.
- Suitable for transmission more viscous, high pressure liquid.
- No pulsation transmission, low noise.
- The magnetic coupling is designed, easy to maintain.
- Brushless drive, high efficiency, maintenance-free.
- Digital display, key operation.
- LF-LED-OS software system.
- Speed display.
- Time dispensing.
- External control signal control, physical isolation, analog control.
- RS485 communication, support MODBUS protocol.
- Wide range power input, adapted to different environments.

CT3000S



Dimension(mm)

CT3001S/CT3001F



Technical Parameters

Parameters	Model	CT3001S	CT3000S	CT3001F	CT3000F
Flow range		90~2700 ml/min		15~2700 ml/min	
Speed range		300~3000rpm		50~3000rpm	
Speed resolution		1rpm			
Working mode		Speed-variable mode, time dispensing		Flow rate mode, time dispensing, volume dispensing, copy dispensing	
Dispensing time		0.1 ~ 999.5			
Transport limitation of liquid particles		particles ID≤10μm (recommended pre-filter)			
Transmission liquid viscous		≤200cSt			
Analog input signal		0 ~ 5V (Standard), 0 ~ 10V, 4 ~ 20mA (Optional)			
Speed output signal		—		0 ~ 5V	
External control signal		5V, 12V(Standard), 24V (Optional)			
Communication		RS485 communication, MODBUS protocol			
Working environment		Working temperature 0 ~ 40°C, relative humidity < 80%			
Power supply		AC100-240V, 50/60Hz			
Power consumption		< 50W	< 150W	<50W	<150W
IP grade		IP31			
Dimension (L×W×H)		293×180×198mm	320×150×237mm	293×180×198mm	320×150×237mm
Shell material		plastic shell	304SS	Plastic shell	304SS
Weight		3.3kg	5.5kg	3.5kg	5.5kg

Precision Gear Pump CT3001F/CT3000F

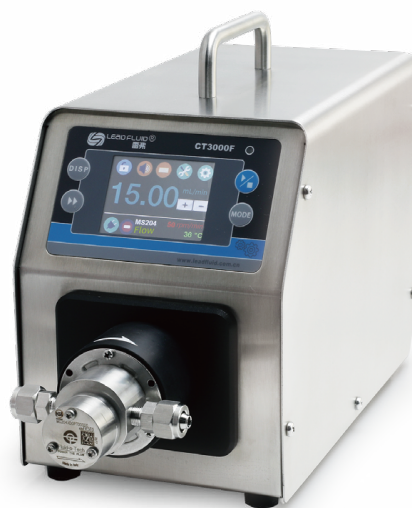
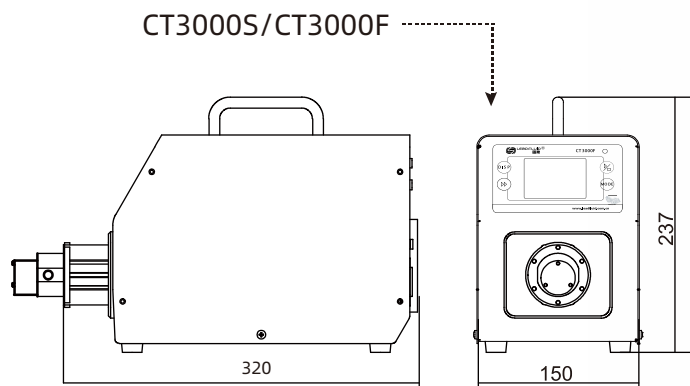
CT3001F/CT3000F adopts brushless servo motor drive, high performance, low noise, stainless steel, magnetic drive pump head, can be realized without pulsation, constant velocity flow transmission. Color LCD display, touch screen operation, can be easily set parameters. A variety of work mode, flow display, it is suitable for all kinds of lab areas. A variety of external control way, convenient use together with other devices, support the MODBUS protocol communication, simplify the difficulty of system development.



Feature

- Can install various pump heads.
- Suitable for transmission more viscous, high pressure liquid.
- No pulsation transmission, low noise.
- The magnetic coupling is designed, easy to maintain.
- Brushless servo drive, high efficiency, high accuracy, maintenance-free.
- Color LCD display, touch screen operation.
- LF-Touch-OS software system.
- Flow display and control.
- A variety of work mode.
- Flow calibration wizard, ensure the accuracy of fluid volume.
- Intelligent temperature control function.
- External control signal control, physical isolation, analog control.
- RS485 communication, support MODBUS protocol.
- Wide range of power input, adapted to different environment.

Dimension(mm) **CT3001F**



CT3000F

Pump Head Specifications and Flow Rate Reference

Drive Model	Pump Head	Gear Material	Speed Range (rpm)	Transfer Pressure (Mpa)	Flow Range (ml/min)
CT3001S	MG204XD0PT00000	PEEK	300 ~ 3000	≤0.8	90 ~ 900
	MG209XD0PT00000			≤0.8	180 ~ 1800
	MG213XD0PT00000			≤0.3	270 ~ 2700
CT3000S	MS204XD0PT00000			≤1.4	90 ~ 900
	MS209XD0PT00000			≤0.9	180 ~ 1800
	MS213XD0PT00000			≤0.8	270 ~ 2700
CT3001F	MG204XD0PT00000		50 ~ 3000	≤0.8	15 ~ 900
	MG209XD0PT00000			≤0.8	30 ~ 1800
	MG213XD0PT00000			≤0.3	45 ~ 2700
CT3000F	MS204XD0PT00000			≤1.4	15 ~ 900
	MS209XD0PT00000			≤0.9	30 ~ 1800
	MS213XD0PT00000			≤0.8	45 ~ 2700

Above flow parameters are obtained by using silicone tube to transfer pure water under normal temperature and pressure, in actually using it is effected by specific factors such as pressure, medium etc. Above for reference only.