

# Micro Gear Pump

## WT3000 Series



- Mainly used in laboratorial applications.
- Brushless motor, stainless steel pump head.



GEAR PUMP

### Pump Specification

| Specifications                 | Model | WT3000-1FA   | WT3000-1FB-A, WT3000-1FB-B           | WT3000-1JA      | WT3000-1JB-A, WT3000-1JB-B           |
|--------------------------------|-------|--|--------------------------------------|-----------------|--------------------------------------|
| Speed                          |       | 300rpm-3000rpm   |                                      |                 |                                      |
| Speed resolution               |       | 1rpm   |                                      |                 |                                      |
| Dispensing volume              |       | 0.1mL-999L   |                                      | Not available   |                                      |
| Copy number                    |       | 0-9999, "0" means unlimited cycle                              |                                      |                 |                                      |
| Pause time                     |       | 1s-999hr, resolution is 0.1s                                   |                                      |                 |                                      |
| Calibration time               |       | 30s-1800s, resolution is 1s                                    |                                      |                 |                                      |
| Diameter of particle in liquid |       | ≤10μm  |                                      |                 |                                      |
| Viscosity                      |       | ≤200cSt  |                                      |                 |                                      |
| Speed signal input             |       | 4-20mA, 0.5-5V, 1-10V, 1-10kHz corresponding to 300rpm-3000rpm |                                      |                 |                                      |
| Start/Stop signal input        |       | TTL signal   |                                      |                 |                                      |
| Speed output                   |       | 1.25kHz-12.5kHz corresponding to 300rpm-3000rpm                |                                      | Not available   |                                      |
| Start/Stop output              |       | OC gate signal   |                                      |                 |                                      |
| Communication interface        |       | RS485  |                                      |                 |                                      |
| Dimension (L×W×H)              |       | 232×142×149(mm)  | 290×207×180(mm)                      | 232×142×149(mm) | 290×207×180(mm)                      |
| Power supply                   |       | AC 90V-260V/50W  | AC 220V±20%/150W or AC 110V±20%/150W | AC 90V-260V/50W | AC 220V±20%/150W or AC 110V±20%/150W |
| Operating condition            |       | 0 to 40°C  |                                      |                 |                                      |
| Relative humidity              |       | <80%   |                                      |                 |                                      |
| IP rating                      |       | IP31   |                                      |                 |                                      |
| Weight                         |       | 2.83kg   | 5.1kg                                | 2.83kg          | 5.1kg                                |

| Drive Model<br>(Product code, Power supply) | Pump Head       | Gear Material | Flow Rate<br>(mL/min) | Outlet Pressure<br>(Mpa) | Liquid Temperature<br>(°C) | Weight<br>(kg) |
|---|-----------------|---------------|-----------------------|--------------------------|----------------------------|----------------|
| WT3000-1JA(05.06.01A)                       | MG204XD0PT00000 | PEEK          | 85.7-857.1            | ≤0.8                     | -45-120                    | 3.25           |
|   | MG204XD0TT00000 | PTFE          | 85.7-857.1            | ≤0.8                     | -45-50                     | 3.25           |
|   | MG209XD0PT00000 | PEEK          | 171.4-1714.3          | ≤0.8                     | -45-120                    | 3.26           |
| WT3000-1FA(05.06.03A)                       | MG209XD0TT00000 | PTFE          | 171.4-1714.3          | ≤0.8                     | -45-50                     | 3.26           |
|   | MG213XD0PT00000 | PEEK          | 257.1-2571.4          | ≤0.3                     | -45-120                    | 3.28           |
|   | MG213XD0TT00000 | PTFE          | 257.1-2571.4          | ≤0.3                     | -45-50                     | 3.28           |
| WT3000-1JB-A(05.06.02A, AC220V)             | MS204XD0PT00000 | PEEK          | 85.7-857.1            | ≤1.4                     | -45-120                    | 5.39           |
| WT3000-1JB-B(05.06.02B, AC110V)             | MS209XD0PT00000 | PEEK          | 171.4-1714.3          | ≤0.9                     | -45-120                    | 5.4            |
| WT3000-1FB-A(05.06.04A, AC220V)             |                 |               |                       |                          |                            |                |
| WT3000-1FB-B(05.06.04B, AC110V)             | MS213XD0PT00000 | PEEK          | 257.1-2571.4          | ≤0.8                     | -45-120                    | 5.42           |