

## SY-03B Syringe Pump



- SY-03B is a micro-syringe pump with extraordinary-precision in the series of high-end products developed by Runze Fluid.
- Accommodates distribution valves and syringes in a variety of configurations. Transfers liquid in high precision which can meet most users' requirements.
- Can be used in series with multiple pumps.
- Fully programmable pump module with open framework, which handling fluids from microliters to milliliters with extraordinary accuracy and precision.
- With functions in automatic pipetting, dilution and dispensing.
- Controlled by an external computer or microprocessor.

ZSB-SY03B - 60 - <sup>①</sup>M01 - 3

Model No.      Rated Stroke 60mm      Valve model      6000 control steps  
(ASC II Code)

Valve Model									
M01	M02	M03	M04	M05					
M06	M07	M08	M09	M10					

### Technical Parameter (ASC II Code)

Accuracy	≤1%@100% rated stroke
Precision (Repeatability)	0.3%~0.5%@100% rated stroke
Rated stroke (control steps)	60mm(6000 steps standard mode; 48000 steps micro-step mode)
RPM Range	0.1rpm ~900rpm
Linear speed	0.01mm/s ~ 60mm/s(media: water ; 1 rated stroke=one time)
Running time (per rated stroke)	1s ~ 900s(media: water ; 1 rated stroke=one time)
Resolution	0.01mm (per step)
Syringe configuration	25μl, 50μl, 100μl, 250μl, 500μl, 1ml, 2.5ml, 5ml, 10ml, 25ml
Valve Model(available)	M01、M02、M03、M04、M05、M06、M07、M08、M09、M10
Wetted material	Borosilicate glass, PTFE, Sapphire, PCTFE
Max. Pressure Rating	0.7Mpa
Actuator	Trapezoidal screw (Lead 6mm)
Connection	1/4-28UNF
Baud rate	RS232/RS485: 9600bps /19200bps/38400bps/57600bps/115200bps CAN: 100kbps / 200kbps/ 500kbps/1Mbps
Communication address	Up to 15 individual addresses can be provided
Firmware	Programmable acceleration/deceleration, termination of movement, programmable piston speed, diagnostic query error, programmable clearance compensation, absolute position or relative position, change speed on the fly, programmable Non-Volatile Memory
Power supply	DC24V/3A
Operating temperature	5°C~55°C
Operating humidity	<80% relative humidity, non-condensing
Dimension (L*W*H)	65*145.5*253.3mm
Net weight	2.2kg

### Valve Model (C connected with syringe)

Valve Model: M01 Fluid Logic: Y Flow Path (C-1/1-2/C-2 interlinked)			
Valve Model: M02 Fluid Logic: T Flow Path (C-1-2/C-1/1-2/C-2 interlinked)			
Valve Model: M03 Fluid Logic: Distribution Flow Path (C-1/C-2/C-3 interlinked)			
Valve Model: M04 Fluid Logic: Radio Flow Path (C-1/1-2/2-3/C-3 interlinked)			
Valve Model: M05 Fluid Logic: Bi-pass Flow Path (C-1/2-3 interlinked, C-3/1-2 interlinked)			Valve Model: M06 Fluid Logic: Distribution Flow Path (C selectively link to port 1-6)
Valve Model: M07 Fluid Logic: Distribution Flow Path (C selectively link to port 1-8)		Valve Model: M08 Fluid Logic: Distribution Flow Path (C selectively link to port 1-10)	
Valve Model: M09 Fluid Logic: Distribution Flow Path (C selectively link to port 1-15)		Valve Model: M10 Fluid Logic: Distribution Flow Path (C selectively link to port 1-12)	

### Dimension (unit: mm)

