



Precision Fluid Control Series



Compact Industrial Syringe Pump

SY-06B

Product Technical Specification | July 2026

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Product Overview

The SY-06B is a compact high-precision syringe pump that saves installation space while serving 50 μ L~10 mL continuous liquid delivery. It retains a 60 mm long stroke, 3-channel TTL input, and RS232/RS485/CAN communication, making it ideal for space-sensitive OEM analytical instruments and automation equipment.

- Compact Footprint
- 50 μ L~10 mL
- 60 mm Stroke
- 3 TTL Inputs
- 900 rpm

Key Features



Compact Design
Small size for OEM integration.



60 mm Rated Stroke
6,000 steps standard mode, 0.01 mm step resolution.



High Speed
Up to 900 rpm with 0.9° stepper motor.



3 TTL Inputs
Easy integration with external sensors and triggers.



Multi-Bus Comm.
RS232/RS485/CAN with ASCII/custom/Modbus protocols.



Wide Syringe Range
50 μ L~10 mL, M01~M12 valves.

Technical Specifications

Parameter	Specification
Model	SY-06B
Principle	Precision positive-displacement syringe pump
Accuracy	$\leq 1\%$ @ 100% rated stroke
Repeatability	0.3%~0.5% @ 100% rated stroke
Rated Stroke	60 mm (6,000 steps standard mode)
Max Speed	900 rpm
Motor	0.9° stepper motor
Linear Speed	0.005~30 mm/s (water)
Stroke Runtime	2~12000 s
Resolution	0.01 mm/step
Syringe Sizes	50 μ L~10 mL
Valve Options	M01 / M02 / M03 / M04 / M05 / M06 / M10 / M12
Valve Switching Time	≤ 280 ms (between adjacent ports)
Wetted Material	Borosilicate glass, PCTFE, Sapphire, PTFE
Max Pressure	0.7 MPa
Actuator	Trapezoidal screw (lead 2 mm)
Input Signal	3 channels TTL input
Connection	1/4-28UNF

Communication	RS232 / RS485 / CAN
Baud Rate	RS232/RS485: 9600~115200 bps; CAN: 100 kbps~1 Mbps
Protocol	ASCII / Custom / Modbus
Power Supply	DC24V / 3A
Operating Temp.	5~55 °C
Relative Humidity	<80% non-condensing
Net Weight	Approx. 2.023 kg
Maintenance	Periodic valve-head cleaning and seal replacement; motor maintenance-free
Application	Space-constrained OEM analyzers, medical test equipment, automatic biochemistry analyzers, online monitors

Typical Applications

- ▶ Compact OEM analytical instruments
- ▶ Automatic biochemistry analyzer reagent delivery
- ▶ Blood/Trace-element analyzers
- ▶ Online environmental monitors
- ▶ Small automated liquid-handling platforms

Ordering Guide

Product Code	Description
SY-06B	Syringe pump body + syringe + valve (optional)

Accessories/Consumables

Accessory	Specification	Note
Glass Syringe	50 µL~10 mL	Volume-dependent
Distribution Valve	M01~M12	Channel-dependent
TTL Control Cable	3 channels	Standard

Why Choose Jiuyuhub

 **Application-First Matching**
Compact solutions for space-constrained devices.

 **Southeast Asia Adapted**
Wide temperature and humidity tolerance.

 **One-Stop Supply**
Pumps, valves and consumables selected together.

 **24-Hour Response**
Fast support for selection, integration and after-sales.

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