

SY-08 Syringe Pump



- Compact size, easy mounting, space-saving, long service life
- Industrial syringe pump with high precision in micro-liquid transferring and high performance.
- Wetted material borosilicate glass and PTFE, corrosion resistance, high temperature resistance, biocompatible and suitable for a variety of special media.
- Widely used in a variety of analysis equipment such as environmental analysis instruments, medical analysis instruments, non-standard sampling facilities in high-precision, etc.

ZSB08-LS - 0.9 - 1 - 5 - 1 - Q

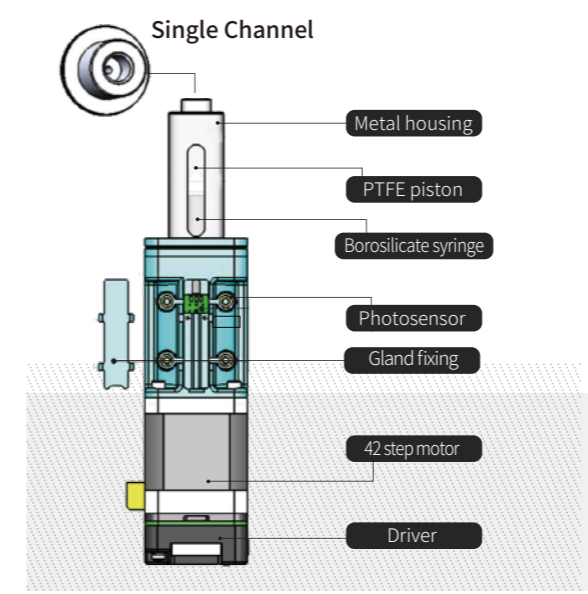
Model No. 0.9° Step angle Screw Lead 1mm Volume Single channel With Driver

5	Volume 5ml
12.5	Volume 12.5ml
25	Volume 25ml

Technical Parameter

Accuracy	≤1%@100% (rated stroke)		
Precision (Repeatability)	0.3%-0.7%@100% (rated stroke)		
Service life	3 million times no leakage (media: water; 1 rated stroke = one time)		
Volume	5ml	12.5ml	25ml
Back Pressure	0.95Mpa	0.9Mpa	0.5Mpa
Rated Stroke (control steps)	30mm(12000steps)	30mm(12000steps)	30mm(12000steps)
Maximum speed	600rpm	600rpm	500rpm
Linear speed	0.017~10mm/s	0.017~10mm/s	0.017~8.33mm/s
Running time (per rated stroke)	3~1800s	3~1800s	3.6~1800s
Resolution	0.0025mm/0.416μl	0.0025mm/1.042μl	0.0025mm/2.083μl
Syringe ID	14.55mm	23.03mm	32.57mm
Actuator	Trapezoidal screw (Lead 1mm)		
Max. piston drive	≥100N		
Wetted Material	Borosilicate glass, PCTFE valve head, PTFE piston		
Max. Pressure	Positive: 0-0.8Mpa, Negative:0-0.06Mpa, (retention time based on test)		
Channel	Single channel		
Connection	1/4-28UNF		
Baud rate	RS232/RS485: 9600bps / 19200bps / 38400bps / 57600bps / 115200bps CAN: 100Kbps/200Kbps/500Kbps/1Mbps		
Address & Parameter setting	Via Communication		
Power supply	DC24V/3A		
Operating temperature	5°C~55°C		
Operating humidity	≤ 80% relative humidity, non-condensing		
Dimension (L*W*H)	42*42*192.8mm	42*42*201.8mm	42*42*201.8mm
Net Weight	0.56KG	0.62KG	0.66KG

Product Structure

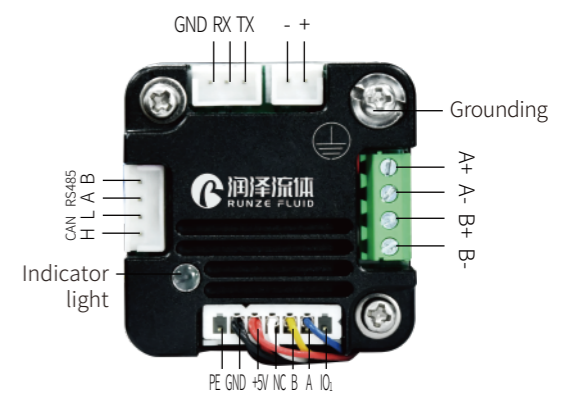


Product Function

Address setting	Address settable via serial port
Baud rate setting	RS232/RS485/CAN baud rate settable
CAN destination address setting	When multiple devices controlled in paralleling, any device can be set with priority address
Speed setting	5ml、12.5ml: from 1 rpm to 600 rpm 25ml: from 1 rpm to 500 rpm (There are difference for gas, liquid and models)
Subdivision setting	subdivision 2-32 are settable
Reset interior data	Factory reset
Parameter query	Query address, speed, subdivision, baud rate, etc.
Version query	Query current firmware version
Motor direction	CW/CCW settable
Reset	Return piston to the origin/home position
Strong stop	Strong stop the running motor
Motor status query	Detect current motor status

Driver Port Definition

Port	Description	Port	Description
+	DC24V Positive	A+/A-	Phase A wiring
-	DC24V Negative	B+/B-	Phase B wiring
TX	RS232 Data Input	IO ₁	NC
RX	RS232 Data Output	IO ₂	Encoder Phase A
GND	RS232 GND	IO ₃	Encoder Phase B
H	CANH	IO ₄	IO ₄ Optocoupler signal
L	CANL	+5V	Power positive
A	RS485A	GND	GND
B	RS485B	PE	Grounding



Dimension (unit: mm)

