Laboratorial Syringe Pump

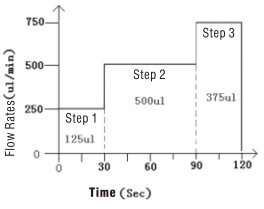
TJP-3A/W0109-1B

Mainly used in laboratorial applications. Controller and drive unit are separated. With the programmable function, you can customize complex infusion/withdrawal process, such as stepped infusion, combination constant speed and ramped speed infusion, trigger dispense or periodic dispense.

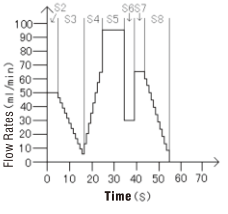
Work mode	Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion, continuous, programmable.
Drive unit	1
Stroke of drive unit	90mm
Pusher advance per microstep	0.165μm
linear speed	7.94μm/min-79.4mm/min (Flow rate=Linear speed * Section area of the barrel).
Linear speed resolution	7.94μm/min
Linear travel accuracy	≤±0.5% when travel ≥30% of drive unit stroke
Linear force(max.)	＞90N
Syringe selection	Built-in syringe branches, sizes and IDs for selection.
Syringe user-defined	Can store four user-defined syringe IDs
Flow rate calibration	Improve flow rate accuracy
Running parameters setting	Parameters, such as dispensing volume, can be set by each channel. Or all channels use the parameters of the specified channel.
Start setting	Each drive unit can be started separately, simultaneously or according to each delay time.
Display setting	Display volume, flow rate or linear speed.
Power-off memory	Select keeping previous status or resetting parameters when powered on.
Fast forward/backward	Infuse or withdraw liquid at full speed
status signal output	2 output signals (OC gate signal) to indicate start/stop and direction.
Control signal input	Falling edge or TTL signal to control Start/stop
Communication interface	RS485
Controller dimensions (L×W×H)	170×108×65 (mm)
Controller weight	0.5kg
Drive unit dimensions (L×W×H)	245×100×95 (mm)
Drive unit weight	1.3kg
Power supply	AC 90V-260V/10W
Operating temperature	0 to 40℃
Relative humidity	＜80%

TJP-3A Programmable Functions

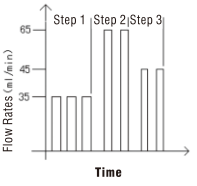
TJP-3A/W0109-1B Programmable Functions



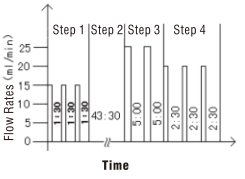
1. Multi-step uniform speed (profile) infusion



2. Complicated curve of Uniform Speed & Uneven Speed



3. Trigger Dispense



4. Periodic Dispense

Controller Model (Product Code)	Drive Unit Model (Product Code)	Syringe (mL)	Syringe ID(mm)	Flow Rate (μL/min-mL/min)
TJP-3A(05.03.13A)	W0109-1B(05.03.02A)	1	4.72	0.139-1.39
		2	9.00	0.505-5.05
		5	13.10	1.07-10.7
		10	16.60	1.718-17.18
		20	19.00	2.251-22.51
		30	23.00	3.298-32.98
		60	29.14	5.295-52.95

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