**TJP3A, Lab Programmable Pump**

Is designed for laboratory use, adopt separate structure. Programmable mode can proceed to multi-step uniform speed infusion, complicated curve of uniform speed & uneven speed, trigger dispense, periodic dispense or combine these process.

### Model | TJP-3A
---|---
**Work mode** | Infusion, withdrawal, infusion/withdrawal, withdrawal/Infusion, continuous, programmable
**Drive unit** | 1
**Stroke** | 90mm
**Stroke resolution** | 0.165mm
**Stroke resolution** | 7.94um/min–79.4mm/min (Row rate= Linear rate * Section area of the barrel)
**Adjusting resolution** | 7.94pm/min
**Stroke accuracy** | ±0.5% tolerance in the condition of ?–30% of full stroke
**Linear force** | >90N
**Syringe selection** | Built-In main manufacturers of the syringe table for selection
**Syringe user-defined** | Save four kinds of user-defined syringes
**Flow rate calibration** | Acquire accurate flow rates through calibration
**Running parameters setting** | Each channel can be separately set dispensing volume, dispensing time, copy number, allowing all channels using the parameters Atte specified channel
**Start parameters setting** | Each drive unit can separately startup, or startup delay, or start simultaneously
**Display selection** | Liquid volume, flow rate or linear speed are optional
**Memory function** | Select resume operation or remain stop when power returns after an interruption
**Fast forward/backward** | Infuse or withdraw liquid at full speed
**Status signal output** | Two DC gate signal output to indicate start/stop of direction
**Control signal input** | Adopt falling edge or TTL signal to control Start/stop
**Communication interface** | RS485
**Controller dimensions (LxWxH)** | 170x108x65 (mm)
**Controller weight** | 0.5kg
**Drive unit dimensions (LxWxH)** | 245x100x95 (mm)
**Drive unit weight** | 1.3kg
**Power supply** | AC 90V–260V/10W
**Operating temperature** | 0 to 40°C
**Relative humidity** | <80%

### Controller Type

<table>
<thead>
<tr>
<th>Controller Type (Product Code)</th>
<th>Drive Unit (Product Code)</th>
<th>Syringe(mL)</th>
<th>Syringe ID(mm)</th>
<th>Flow Rate (pl./min–mi./min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TJP-3A</td>
<td>110109–113</td>
<td>1</td>
<td>4.72</td>
<td>0.139–1.39</td>
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<tr>
<td></td>
<td></td>
<td>2</td>
<td>9.00</td>
<td>0.505–5.05</td>
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<td>5</td>
<td>13.10</td>
<td>1.07–10.7</td>
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<td>10</td>
<td>16.60</td>
<td>1.718–17.16</td>
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<td>20</td>
<td>19.00</td>
<td>2.251–22.51</td>
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<td>30</td>
<td>23.00</td>
<td>3.298–32.98</td>
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<td>60</td>
<td>29.14</td>
<td>5.295–52.95</td>
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