INNOFLUID

# Lab Series




3 YEARS WARRANTY

# INNOFLUID CO.,LTD.

## INNOFLUID PERISTALTIC PUMP

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ISO SGS RoHS CE

3 YEARS WARRANTY

# Lab series
# LABORATORY PERISTALTIC PUMP

## Function comparison

| Function \ Model | LabV | LabN | LabM |
|---|---|---|---|
| Color LCD Screen | • | • | |
| LED Display/Indicator Light | | | • |
| Flow Rate | • | • | |
| Speed Rate | • | • | • |
| Touch Screen Control | • | | |
| Keypad Control | • | • | • |
| Knob Control | | • | |
| Open Head Stop Running (Optional) | • | | |
| Flow Rate Calibration | • | • | |
| Liquid Transmission Function | • | • | • |
| Liquid Volume/ Time Dispensing | • | | |
| Speed/Time Dispensing | | • | • |
| Fixed volume | • | | |
| Dispensing | • | | |
| Back Suction Angle | • | • | |
| Set Date & Time | • | | |
| Power Down Memory | • | • | • |
| Active switch signal, 5V/24V universal(Start/stop, direction) | • | • | • |
| Active switch signal, 5V/24V universal(Flushing function) | • | • | |
| Passive switch signal(foot pedal/ handheld dispenser/ start/stop) | • | • | • |
| Passive switch signal (direction) | | | • |
| Speed adjusting by analog input (0-10V/0-5V/4-20mA) | • | • | • |
| RS232 interface | • | • | • |
| RS485 interface (Modbus protocol RTU mode) | • | • | • |
| Output operating status (Open collector output) | • | • | |

## Specification comparison

| Technical Parameter \ Model | LabV Series | LabN Series | LabM Series |
|---|---|---|---|
| Display | Industrial grade 4.3" LCD color display | 3.2" high definition LCD screen | 3 digital LED |
| Control method | Touch screen and Mechanical keypad | Digital knob and Mechanical keypad | Mechanical keypad |
| Keypad lifetime | 300,000 times | 300,000 times | 300,000 times |
| Speed range | 0.1-600 rpm | 0.1-600 rpm | 0.1-600 rpm |
| Speed Control | Touch screen/Analog signal/ Communication | Digital knob/Analog signal/ Communication | Keypad/Analog signal/ Communication |
| Speed resolution | 0.01rpm | 0.01rpm | 0.1rpm when the speed is 0-100rpm, 1rpm when the speed is 100-600rpm. |
| Flow rate resolution | 0.01 mL/min | / | / |
| Dispensing volume range | 0.01-9999L 0.01-9999mL | / | / |
| Dispensing time | 0.1-9999s | 0.1s-9999h | 0.5-999s |
| Pause time | 0.1-9999s | / | / |
| Copy numbers | 1-9999 times, setting'0'means unlimited | 1 | 1 |
| Back suction angle | 0-360° | 0-360° | / |
| Motor type | LabV series: Stepper motor LabV-III series: Closed-loop stepper motor | LabN series: Stepper motor LabN-III series: Closed-loop stepper motor | LabM series: Stepper motor LabM-III series: Closed-loop stepper motor |
| Start/stop, direction signal | Passive switch signal, such as foot pedal switch; Active switch signal:5-24V universal | Passive switch signal, such as foot pedal switch; Active switch signal:5-24V universal | Passive switch signal, such as foot pedal switch; Active switch signal:5-24V universal |
| External speed control signal | 0-5V, 0-10V, 4-20mA for option | 0-5V, 0-10V, 4-20mA for option | 0-5V, 0-10V, 4-20mA for option |
| Communication interface | RS232, RS485 support Modbus protocol(RTU mode) | RS232, RS485 support Modbus protocol(RTU mode) | RS232, support Shenchen protocol RS485, support Modbus protocol (RTU mode) |
| Output interface | Output motor working status (Open-Collector output) | Output motor working status (Open-Collector output) | / |
| Power supply | AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional) | AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional) | AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional) |
| Drive dimension (L×W×H) | 261.4×157.3×236.9mm | 261.4×157.3×236.9mm | 261.4×157.3×236.9mm |
| Power consumption | LabV series: <50w LabV-III series:<80w | LabN series: <50w LabN-III series:<80w | LabMseries: <50w LabM-III series:<80w |
| Condition temperature | 0-40℃ | 0-40℃ | 0-40℃ |
| Relative humidity | <80% | <80% | <80% |

## Flow Rates Peristaltic Pump

- Industrial grade 4.3" true color LCD screen, touch screen control.
- Dynamic display transferring status. Flow rate data, setting parameters and system configuration display in the same screen.
- Four-working modes: Fixed volume, volume dispensing, speed dispensing, and timing start/stop functions meet complex transmission and dispensing requirements.
- Intelligent calibration function and online micro adjusting function.



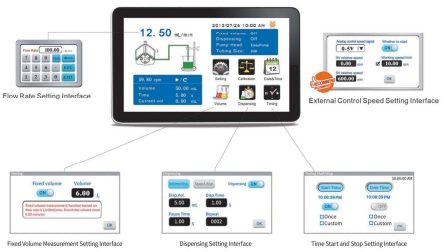

# LabV series

### Suitable Pump Head



EasyPump Series (Adjustable pressure) | EasyPump Series (Fixed pressure) | AMC Series | KD15/KD25

### Screen Display

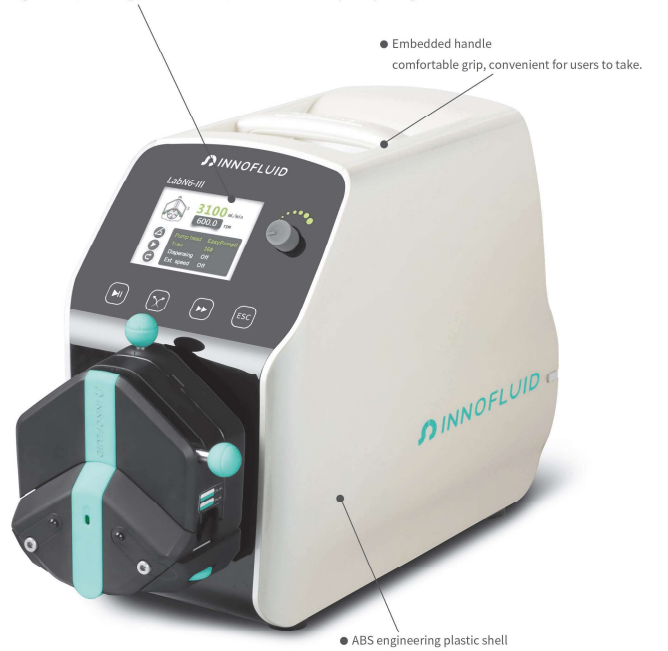



### Product Composition and Flow Rate Range

| Flow Rates Peristaltic Pump | | Pump Head & Flow Rate (mL/min) | | |
|---|---|---|---|---|
| | | EasyPump Series | | |
| Drive&Speed \ Tubing | | EasyPumpI/III | EasyPumpII/IV | EasyPumpV/VI |
| | | 13#, 14#, 19#, 16#, 25#, 17#, 18# | 15#, 24#, 35#, 36# | 13#, 14#, 19#, 16#, 25# |
| LabV1-III | 0.1-150 rpm | 0.0053~645 | 0.18~775 | 0.0053~295 |
| LabV3-III | 0.1-350 rpm | 0.0053~1505 | 0.18~1808 | 0.0053~688 |
| LabV6-III | 0.1-600 rpm | 0.0053~2580 | 0.18~3100 | 0.0053~1180 |
| Drive&Speed \ Tubing | | KD15 | | KD25 |
| | | 13#, 14#, 19#, 16#, 25#, 17#, 18# | | 15#, 24# |
| LabV1-III | 0.1-150 rpm | 0.0083-756.99 | | 0.2513-586.74 |
| LabV3-III | 0.1-350 rpm | 0.0083-1766.32 | | 0.2513-1369.05 |
| LabV6-III | 0.1-600 rpm | 0.0083-3027.97 | | 0.2513-2346.95 |
| Drive&Speed \ Tubing | | AMC1~AMC12 | | |
| | | (10 rollers) | | (6 rollers) |
| LabV1 | 0.1-150 rpm | Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm | | |
| | | 0.0002-48(working speed≤150rpm) | | 0.0002-65(working speed≤150rpm) |

## Flow Rates Peristaltic Pump

- 3.2" color LCD screen display.
- Flow rate and motor speed display in same screen.
- Timing function, time range 0.1s-9999 hours, can be used for simple dispensing function.




# LabN series

### Suitable Pump Head



EasyPump Series (Adjustable pressure) | EasyPump Series (Fixed pressure) | AMC Series | KD15/KD25

### Screen Display




### Product Composition and Flow Rate Range

| Flow Rates Peristaltic Pump | | Pump Head & Flow Rate (mL/min) | | |
|---|---|---|---|---|
| | | EasyPump Series | | |
| Drive&Speed \ Tubing | | EasyPumpI/III | EasyPumpII/IV | EasyPumpV/VI |
| | | 13#, 14#, 19#, 16#, 25#, 17#, 18# | 15#, 24#, 35#, 36# | 13#, 14#, 19#, 16#, 25# |
| LabN1-III | 0.1-150 rpm | 0.0053~645 | 0.18~775 | 0.0053~295 |
| LabN3-III | 0.1-350 rpm | 0.0053~1505 | 0.18~1808 | 0.0053~688 |
| LabN6-III | 0.1-600 rpm | 0.0053~2580 | 0.18~3100 | 0.0053~1180 |
| Drive&Speed \ Tubing | | KD15 | | KD25 |
| | | 13#, 14#, 19#, 16#, 25#, 17#, 18# | | 15#, 24# |
| LabN1-III | 0.1-150 rpm | 0.0083-756.99 | | 0.2513-586.74 |
| LabN3-III | 0.1-350 rpm | 0.0083-1766.32 | | 0.2513-1369.05 |
| LabN6-III | 0.1-600 rpm | 0.0083-3027.97 | | 0.2513-2346.95 |
| Drive&Speed \ Tubing | | AMC1~AMC12 | | |
| | | (10 rollers) | | (6 rollers) |
| LabN1 | 0.1-150 rpm | Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm | | |
| | | 0.0002-48(working speed≤150rpm) | | 0.0002-65(working speed≤150rpm) |

## Standard Peristaltic Pump

- 3 digital LED display motor speed, mechanical keypad control.
- Timing function, the time range of 0.5 seconds -999 seconds can be used as a simple dispensing.
- Support RS232 and RS485 communication, Modbus protocol.




# LabM series

### Suitable Pump Head



EasyPump Series (Adjustable pressure) | EasyPump Series (Fixed pressure) | AMC Series | KD15/KD25

### Screen Display




### Product Composition and Flow Rate Range

| Flow Rates Peristaltic Pump | | Pump Head & Flow Rate (mL/min) | | |
|---|---|---|---|---|
| | | EasyPump Series | | |
| Drive&Speed \ Tubing | | EasyPumpI/III | EasyPumpII/IV | EasyPumpV/VI |
| | | 13", 14", 19", 16", 25", 17", 18" | 15", 24", 35", 36" | 13", 14", 19", 16", 25" |
| LabM1-III | 0.1-150 rpm | 0.0053~645 | 0.18~775 | 0.0053~295 |
| LabM3 III | 0.1-350 rpm | 0.0053~1505 | 0.18~1808 | 0.0053~688 |
| LabM6-III | 0.1-600 rpm | 0.0053~2580 | 0.18~3100 | 0.0053~1180 |
| Drive&Speed \ Tubing | | KD15 | KD25 | |
| | | 13", 14", 19", 16", 25", 17", 18" | 15", 24" | |
| LabM1-III | 0.1-150 rpm | 0.0083-756.99 | 0.2513-586.74 | |
| LabM3-III | 0.1-350 rpm | 0.0083-1766.32 | 0.2513-1369.05 | |
| LabM6-III | 0.1-600 rpm | 0.0083-3027.97 | 0.2513-2346.95 | |
| Drive&Speed \ Tubing | | AMC1~AMC12 | | |
| | | (10 rollers) | (6 rollers) | |
| LabM1 | 0.1-150 rpm | Inner diameter: 0.13-3mm | Wall thickness: 0.8-1mm | |
| | | 0.0002-48(working speed≤150rpm) | 0.0002-65(working speed≤150rpm) | |

## Flow Rates Peristaltic Pump

### LabV3-IV



- Industrial Grade 4.3" true color LCD display, touch screen control.
- Dynamic display transferring status; Flow rate data, setting parameters, and system configuration display in the same screen.
- Three kinds of metering modes: fixed Volume metering, fixed time and voulme, timer start-stop, meet different transferring and dispensing requirements.
- Intelligent calibration Function and online micro adjusting function.
- Function of stop working when uncover to ensure the operation safety.
- Optional for UC15 pump head, can fit for 4 different size tubing, large flow rate.
- Optional for UC20 pump head, can use medical dialysis tube, matching with medical dialysis equipment.

### Typical Application

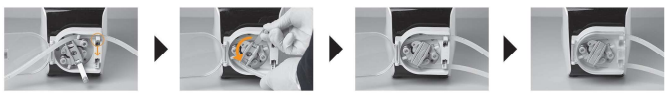
- Mainly for laboratory.

### Roller Assembly



Manual lever help install the tube, and can finish liquid circulation when power down unexpectedly.

### Tubing Installation Procedure



1. Press the pipe clamp, put the tube into the U shaped groove.
2. Put the tube between the two guide posts. Hold the spanner, rotate the wheel body.
3. Press the pipe clamp, put the tube into the U shaped groove.
4. Installation is finished.

### Product Composition and Flow Rate Range

| Model | Pump Head | Speed Range(rpm) | Tubing Size | Flow Rate (mL/min) |
|---|---|---|---|---|
| LabV3-IV | UC15 | 0.1-350 | 16" | 0.1651-596 |
| | | | 25" | 0.3440-1251 |
| | | | 17" | 0.5818-2186 |
| | | | 18" | 0.8652-3281 |
| | UC20 | 0.1-200 | Medical dialysis tube 8*2 | 0.7327-811 |

## Multi-Channel Independent Peristaltic Pump

### LabSmart




- LabSmart multi-channel independent control peristaltic pump, featuring a 5-inch color LCD screen interface for intuitive operation.
- Multiple external control options: Each channel supports independent external start/stop, direction, operation status output and direction output; support RS232 and RS485 communication, compliant with the standard Modbus RTU protocol.
- Compatible with AMC series pump heads, offering a flow rate range from 0.02 uL/min to 48.379 mL/min.
- Four working modes: Flow Rate Mode, Time&Volume, Time&Speed, and Volume&Speed.
- Convenience: Stores up to 10 groups of common working modes.
- Safety: Support leakage shutdown function (requires optional leak sensor).

### Technical Specifications

| LabSmart | | | |
|---|---|---|---|
| Flow rate resolution | 0.001uL/min | Power supply | AC100-240V/100W |
| Speed range | 0.01-150rpm | Speed resolution | 0.01rpm |
| Operation method | Touch screen | Common modes | Up to 10 common modes can be saved |
| Flow rate range | 0.02uL/min(0.13*0.86)-48.379mL/min(3*1) | External control signals | Passive switch signal: such as a foot pedal switch<br>Active switch signal: compatible with 5-24 V DC input |
| Temperature | 0-40℃ | | |
| Power-off memory | Retains pre-power-loss data and parameters upon re-energization | Relative humidity | <80% |
| | | Motor type | Stepper motor |
| Communication interface | RS232/RS485 | Output interface | Outputs the motor running status and rotation direction (open-collector output) |
| Back suction angel | 0-360° | IP | IP31 |

### Product Composition and Flow Rate Range

| Tubing | Speed | Flow rate of pump head with 10 rollers(μL/min-mL/min) | Tubing maximum pressure (Mpa) | |
|---|---|---|---|---|
| | | | Continuous | Intermittent |
| 1×1 | 0.01-150rpm | 0.503-7.549 | 0.1 | 0.1 |
| 2×1 | | 1.835-27.519 | | |
| 2.4×0.8 | | 2.542-38.130 | | |
| 3×1 | | 3.226-48.379 | | |
| 0.13×0.86 | | 0.02-0.289 | | |
| 0.19×0.86 | | 0.03-0.439 | | |
| 0.25×0.86 | | 0.051-0.759 | | |
| 0.51×0.86 | | 0.134-1.999 | | |
| 0.89×0.86 | | 0.298-4.470 | | |
| 1.14×0.86 | | 0.611-9.159 | | |
| 1.42×0.86 | | 1.250-18.750 | | |
| 1.52×0.86 | | 1.44-21.599 | | |
| 2.06×0.86 | | 1.974-29.599 | | |
| 2.79×0.86 | | 2.858-42.859 | | |




# COMPACT LABORATORY PERISTALTIC PUMP

## Compact Peristaltic Pump

### LabK

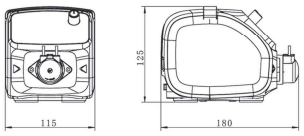
Three years warranty

ABS Plastic shell



- ABS engineering plastic housing, anti-corrosion, anti-static.
- OLED screen display motor speed, digital knob control speed.
- Compact design, various external control.
- Easy to observe the pump head and tubing working situation.
- Low power consumption, mute working.
- Stable flow rate and suitable for continuous dosing applications.
- Easy to replace long life PharMed tubing.
- Digital knob control speed, memory back up, user setting saved if power lost.

#### Dimension Drawing (Unit: mm)




#### Color Selection



#### Technical Specifications

| LabK | | | |
|---|---|---|---|
| Flow rate range | 0.004-63.96mL/min | External control | Start/stop direction control (switch signal), 0-5V, 4-20mA (standard), 0-10V (optional) |
| Speed range | 0.1-150rpm reversible | | |
| Speed resolution | 0.1rpm | Power adapter | Output: (12V/1A); Input: AC100V-240V, 50Hz/60Hz |
| Speed control | Digital knob | | |
| Control method | Digital knob control and mechanical keypad | Dimension | 180*115*125mm(L×W×H) |
| Keypad lifetime | 300,000 times | Weight | 0.8kg |
| Display | 0.96" OLED display | Power consumption | <12W |
| Communication interface | USB connector, RS485 interface (MODBUS protocol, RTU mode) | Condition temperature | 0-40℃ |
| | | Relative humidity | <80%,no condensation |

#### Product Composition and Flow Rate Range

| Model | Pump Head | Speed(rpm) | Tubing Size (ID×Wall Thickness(mm)) | Flow Rate Range (mL/min) |
|---|---|---|---|---|
| LabK | MicroPump | 0.1-150 | 1.0*1.1 | 0.004-6.38 |
| | | | 2.0*1.0 | 0.014-21.45 |
| | | | 3.0*1.0 | 0.031-47.26 |
| | | | 4.0*1.0 | 0.042-63.96 |

## Compact Peristaltic Pump

### LabQ

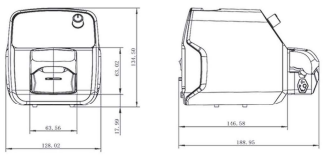
Three years warranty

ABS Plastic shell



- LabQ with ABS engineering plastic housing, 2.4 inch LCD display; small and compact, low power and ultra-silence.
- The digital knob is convenient for speed regulation and easy to operate.
- Multiple external control modes are optional, support RS485 communication, standard MODBUS protocol (RTU mode).
- Meet complex work environment with the super anti-interference and wide voltage design.
- Flow rate and motor speed display in the same screen.
- Super silent drive setting, precise control, low vibration and low noise.
- Mechanical keypad control, menu interface, convenient for users setting the parameters.
- Digital rotary knob is convenient for speed regulation and easy to operate.
- Various external control functions, support 0-5V, 0-10V, 4-20mA analog signals control speed.

#### Dimension Drawing (Unit: mm)



#### Technical Specifications

| LabQ | | | |
|---|---|---|---|
| Flow rate range | 0.0033-326.55mL/min | Start/stop, reversing signal | Switch signal(The default is passive signal, active signal is optional) |
| Speed range | 0.1-350rpm | | |
| Speed resolution | 0.1rpm | Communication interface | RS485, (MODBUS protocol, RTU mode) |
| Control method | Digital knob control and mechanical keypad | | |
| Display | 2.4 inch LCD screen | Dimension | 188*128*135mm(L×W×H) |
| External speed control | 0-5V, 0-10V, 4-20mA | Weight | 1.1kg |
| Output interface | Open-Collector output | Power consumption | <30W |
| Power supply | Output: 24V/1.25A | Temperature | 0-40℃ |
| | Input: AC100V-240V, 50Hz/60Hz | Relative humidity | <80%,no condensation |

#### Product Composition and Flow Rate Range

| Model | Channel number | Tubing | ID×Wall thickness(mm) | mL / r | Speed(rpm) | Flow Rate(mL/min) | Weight(kg) |
|---|---|---|---|---|---|---|---|
| LabQ/KT15 | Single channel | 13" | 0.8×1.6 | 0.033 | 0.1~350 | 0.0033~11.55 | 1.1 |
| | | 14" | 1.6×1.6 | 0.156 | | 0.0156~54.60 | |
| | | 19" | 2.4×1.6 | 0.286 | | 0.0286~100.10 | |
| | | 16" | 3.2×1.6 | 0.477 | | 0.0477~166.95 | |
| | | 25" | 4.8×1.6 | 0.933 | | 0.0933~326.55 | |

## Compact Peristaltic Pump

### LabT

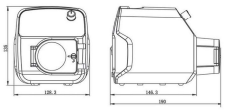
Three years warranty

ABS Plastic shell



- ABS engineering plastic housing, anti-corrosion, anti-static.
- OLED screen display motor speed, digital knob control speed.
- Compact design, various external control.
- Easy to observe the pump head and tubing working situation.
- Low power consumption, mute working.
- Stable flow rate and suitable for continuous dosing applications.
- Easy to replace long life PharMed tubing.
- Digital knob control speed, memory back up, user setting saved if power lost.

#### Dimension Drawing (Unit: mm)



#### Suitable Pump Head



LabT/KT15 LabT/MiniPump

#### Technical Specifications

| LabT | | | |
|---|---|---|---|
| Model | LabT/KT15 | Display | 0.96" OLED display |
| | LabT/MiniPump | Power adapter | Output: 24V/1.25A; Input: AC100V-240V, 50Hz/60Hz |
| | LabT/UD15 | | |
| Speed range | LabT/KT15: 0.1-350rpm | Communication interface | USB connector, RS485 interface (MODBUS protocol, RTU mode) |
| | LabT/MiniPump: 0.1-300rpm | | |
| | LabT/UD15: 0.1-350rpm | Dimension | 189*128*135mm(L×W×H) |
| Speed resolution | 0.1rpm | Weight | 1100g |
| Control method | Digital knob control and mechanical keypad | Power consumption | < 30W |
| External control | Start/stop direction control (switch signal), 0-5V, 4-20mA (standard), 0-10V (optional) | Condition temperature | 0-40℃ |
| | | Relative humidity | <80%,no condensation |

#### Product Composition and Flow Rate Range

| Model | Pump Head | Tubing | | Speed (rpm) | Flow Rate (L/min) | Weight(kg) |
|---|---|---|---|---|---|---|
| | | Tubing Sizes | (ID×Wall thickness(mm)) | | | |
| LabT | UD15 | 16" | 3.2×1.6 | 0.1~350 | 0.08~280 | 1.1 |
| | | 25" | 4.8×1.6 | | 0.16~580 | |
| | | 17" | 6.4×1.6 | | 0.26~930 | |
| | KT15 | 13" | 0.8×1.6 | 0.1~350 | 0.0033~11.55 | 1.1 |
| | | 14" | 1.6×1.6 | | 0.0156~54.6 | |
| | | 19" | 2.4×1.6 | | 0.0286~100.1 | |
| | | 16" | 3.2×1.6 | | 0.0477~166.95 | |
| | | 25" | 4.8×1.6 | | 0.0933~326.55 | |
| | MiniPump01 | 13" | 0.8×1.6 | 0.1~300 | 0.0024~8.28 | 1.1 |
| | | 14" | 1.6×1.6 | | 0.0112~33.88 | |
| | | 19" | 2.4×1.6 | | 0.0252~77.23 | |
| | | 16" | 3.2×1.6 | | 0.0394~114.31 | |
| | | 25" | 4.8×1.6 | | 0.0652~190.00 | |
| | | 1×1 | 1×1 | | 0.005~15.01 | |
| | | 2×1 | 2×1 | | 0.018~54.63 | |
| | | 2.5×1 | 2.5×1 | | 0.0256~76.84 | |
| | | 3×1 | 3×1 | | 0.0356~108.39 | |
| | MiniPump02 | 1×1 | 1×1 | 0.1~300 | 0.005~15.01 | 1.1 |
| | | 2×1 | 2×1 | | 0.018~54.63 | |
| | | 2.5×1 | 2.5×1 | | 0.0256~76.84 | |
| | | 3×1 | 3×1 | | 0.0356~108.39 | |

# Compact Peristaltic Pump

## ST-HandyPump

304 Stainless steel

3 YEARS WARRANTY Three years warranty

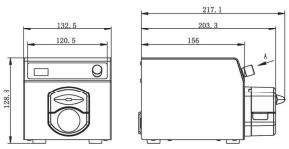


- 304 stainless steel shell , resist corrosion. Can be stacked to use.
- Closed-loop stepper motor, compact structure, low noise, low vibration.
- OLED screen display working speed and status. Digital knob control speed, easy operation.
- Support RS232 and RS485 communication.
- Various external control interface.
- Wide voltage design, high versatility.

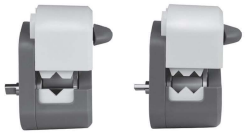
### Model Number

- ST-HandyPump

### Dimension Drawing(Unit: mm)




### Suitable Pump Head



Single channel HandyPump01 Dual channel HandyPump02

### Technical Specifications

| ST-HandyPump | | | |
|---|---|---|---|
| Flow rate range | 0.0033~365.69mL/min | Power supply | AC100V-240V, 50Hz/60Hz |
| Speed range | 0.1~300rpm | Communication interface | RS485, RS232 |
| Speed resolution | 0.1rpm | Output interface | Output motor working status |
| Control method | Digital knob control and mechanical keypad | Drive dimension | 217.1*132.5*128.5mm(L*W*H) |
| Motor type | 57 closed-loop stepper motor | Weight | 2.92Kg |
| Keypad lifetime | 300,000 times | Power consumption | ≤75W |
| Display | OLED display(0.96") | Condition temperature | 0-40℃ |
| External control | Start/stop control(switch signal) | Relative humidity | <80%,no condensation |
| | Speed: 0-5V, 4-20mA(standard), 0-10V (optional) | | |

### Product Composition and Flow Rate Range

| Model | Channel number | Pump Head | Speed(rpm) | Tubing Size | Flow Rate Range(mL/min) |
|---|---|---|---|---|---|
| ST-HandyPump | 1/2 | HandyPump01 | 0.1-300 | 13#,14#, 19#, 16#, 25# | 0.0033-365.69 |
| | | HandyPump02 | | 13#,14#, 19#, 16# | 0.0033-190.76 |



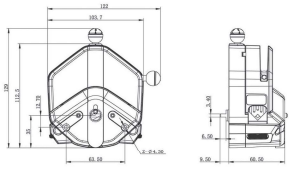

# PUMP HEAD

# Pump Head - EasyPump Series

## EasyPump

### Dimension Drawing(Unit: mm)





Pump Drive : LabV-III LabN-III LabM-III

Easypump obtained China Invention patent and Appearance patent.



Invention Patent No.: ZL 201910933057.X
Appearance patent No.: ZL 201930723432.9

Easypump obtained U.S. Invention patent and Appearance patent.




Invention Patent No.: US 11,852,136 B2
Appearance patent No.: US D939,692 S

Easypump obtained EU Invention patent and Appearance patent.



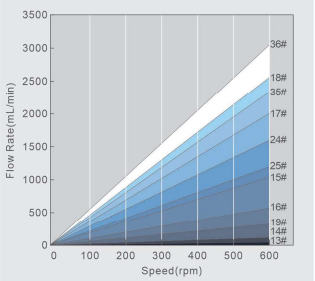
Invention patent No.: EP3967879
Appearance patent No.: 008005789-0002

### Flow Rate

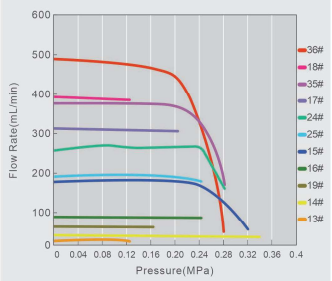
| Pump Head | Housing Material | Tubing Size | Tubing IDxWall Thickness | mL/r | Speed (rpm) | Flow Rate (mL/min) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| Single channel EasyPumpI/III | Engineering plastic / PPS | 13# | 0.8x1.6 | 0.053 | 0.1-600 | 0.0053-32 | 0.6 |
| | | 14# | 1.6x1.6 | 0.27 | | 0.027-162 | |
| | | 19# | 2.4x1.6 | 0.55 | | 0.055-330 | |
| | | 16# | 3.2x1.6 | 0.933 | | 0.093-560 | |
| | | 25# | 4.8x1.6 | 1.967 | | 0.197-1180 | |
| | | 17# | 6.4x1.6 | 3.333 | | 0.333-2000 | |
| | | 18# | 7.9x1.6 | 4.3 | | 0.430-2580 | |
| Single channel EasyPumpII/IV | | 15# | 4.8x2.4 | 1.8 | | 0.180-1080 | |
| | | 24# | 6.4x2.4 | 2.733 | | 0.273-1640 | |
| | | 35# | 7.9x2.4 | 3.833 | | 0.383-2300 | |
| | | 36# | 9.6x2.4 | 5.167 | | 0.517-3100 | |
| Dual channel EasyPumpV/VI | | 13# | 0.8x1.6 | 0.053 | | 0.0053-32 | |
| | | 14# | 1.6x1.6 | 0.27 | | 0.027-162 | |
| | | 19# | 2.4x1.6 | 0.55 | | 0.055-330 | |
| | | 16# | 3.2x1.6 | 0.933 | | 0.093-560 | |
| | | 25# | 4.8x1.6 | 1.967 | | 0.197-1180 | |

Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

### Flow Rate(0.1-600rpm)




### Pressure/Flow Rate Curve(100rpm)




### Filling Volume Reference Parameter

| Drive | Pump Head | Tubing | Filling Volume(mL) | Filling Time(s) | Accuracy(±%) | Output (pcs/min) | Motor Speed (rpm) |
|---|---|---|---|---|---|---|---|
| LabV6-III Series | EasyPump | 13# | 0.4 | 1.2 | 0.8 | 27 | 377.36 |
| | | 13# | 1 | 2.5 | 0.5 | 17 | 452.83 |
| | | 14# | 2 | 1 | 0.5 | 30 | 444.44 |
| | | 19# | 5 | 1.2 | 0.5 | 27 | 454.55 |
| | | 16# | 7 | 1 | 0.5 | 30 | 450.16 |
| | | 25# | 10 | 0.8 | 0.8 | 33 | 381.29 |
| | | 25# | 15 | 1 | 0.5 | 30 | 457.55 |
| | | 25# | 20 | 1.5 | 0.5 | 24 | 406.71 |
| | | 17# | 30 | 1.2 | 0.5 | 27 | 450.05 |
| | | 18# | 50 | 1.5 | 0.5 | 24 | 465.12 |
| | | 15# | 15 | 1.2 | 0.5 | 27 | 416.67 |
| | | 24# | 20 | 1.2 | 0.5 | 27 | 365.90 |
| | | 35# | 30 | 1.2 | 0.5 | 27 | 391.34 |
| | | 36# | 50 | 1.6 | 0.6 | 24 | 387.07 |
| | 2*EasyPump | 13# | 0.5 | 0.8 | 0.8 | 33 | 353.77 |
| | | 13# | 1 | 1.2 | 0.5 | 27 | 471.70 |
| | | 14# | 2 | 0.6 | 1 | 38 | 370.37 |
| | | 14# | 5 | 1.5 | 0.5 | 24 | 370.37 |
| | | 19# | 10 | 1.2 | 0.5 | 27 | 454.55 |
| | | 16# | 15 | 1.2 | 0.5 | 27 | 401.93 |
| | | 16# | 20 | 1.5 | 0.5 | 24 | 428.72 |
| | | 25# | 30 | 1 | 0.5 | 30 | 457.55 |
| | | 17# | 50 | 1 | 0.5 | 30 | 450.05 |
| | | 18# | 70 | 1 | 0.5 | 30 | 488.37 |
| | | 15# | 30 | 1.2 | 0.5 | 27 | 416.67 |
| | | 24# | 50 | 1.2 | 0.5 | 27 | 457.37 |
| | | 35# | 70 | 1.2 | 0.5 | 27 | 456.56 |
| | | 36# | 100 | 1.5 | 0.5 | 24 | 387.07 |

Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

# Pump Head - AMC Series

## AMC Series



### Product Introduction

- The unique elastic positioning mechanism allows users to install and remove cartridge with one hand. Multichannel, small volume transferring.
- Elastic pressure tube design to extend the service life of the tube.
- Stepless adjustment of the tube pressure gap, effectively improving the accuracy between channels.
- 304 stainless steel roller assembly, including 6 rollers and 10 rollers structure, which are designed with low noise and high speed, suitable for supporting various analytical instruments.

AMC obtained EU Appearance patent.

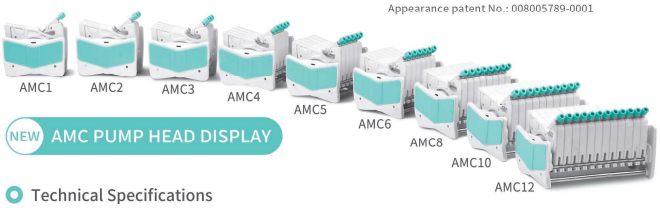


Appearance patent No.: 008005789-0001

Pump Drive : LabV LabN LabM

### Typical Application

- Support blood sugar analytical device.
- Support ammonian analytical instrument.




NEW AMC PUMP HEAD DISPLAY

### Technical Specifications

Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

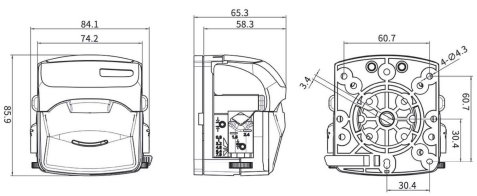
| Tubing | Speed | Flow rate of pump head with 10 rollers (mL/min) | Flow rate of pump head with 6 rollers (mL/min) | Tubing maximum pressure (Mpa) | |
|---|---|---|---|---|---|
| | | | | Continuous | Intermittent |
| 1×1 | 0.1~150rpm | 0.0050~7.55 | 0.0062~9.36 | 0.1 | 0.1 |
| 2×1 | | 0.0183~27.52 | 0.0220~33.06 | | |
| 2.4×0.8 | | 0.0254~38.13 | 0.0319~47.81 | | |
| 3×1 | | 0.0323~48.38 | 0.0434~65.17 | | |
| 0.13×0.86 | | 0.0002~0.29 | 0.0002~0.31 | | |
| 0.19×0.86 | | 0.0003~0.44 | 0.0003~0.46 | | |
| 0.25×0.86 | | 0.0005~0.76 | 0.0005~0.80 | | |
| 0.51×0.86 | | 0.0013~2.00 | 0.0014~2.05 | | |
| 0.89×0.86 | | 0.0030~4.47 | 0.0031~4.65 | | |
| 1.14×0.86 | | 0.0061~9.16 | 0.0065~9.74 | | |
| 1.42×0.86 | | 0.0125~18.75 | 0.0142~21.28 | | |
| 2.06×0.86 | | 0.0197~29.60 | 0.0234~35.17 | | |
| 2.79×0.86 | | 0.0286~42.86 | 0.0372~55.77 | | |

### Filling Volume Reference Parameter

| Pump Head | Tubing | Filling Volume (mL) | Filling Time (s) | Accuracy (±%) | Output (pcs/min) | Motor Speed (rpm) |
|---|---|---|---|---|---|---|
| KD15 | 13# | 0.3 | 0.8 | 0.8 | 33 | 352.15 |
| | 13# | 0.5 | 1 | 0.8 | 30 | 408.25 |
| | 13# | 1 | 2 | 0.5 | 20 | 406.79 |
| | 13# | 1.5 | 3 | 0.8 | 15 | 406.75 |
| | 14# | 2 | 1 | 0.8 | 30 | 383.12 |
| | 14# | 3 | 1.5 | 0.8 | 24 | 383.13 |
| | 19# | 5 | 1.2 | 0.8 | 27 | 343.52 |
| | 19# | 6 | 1 | 0.5 | 30 | 521.98 |
| | 16# | 7 | 1 | 0.5 | 30 | 400.04 |
| | 16# | 10 | 1 | 0.8 | 30 | 583.32 |
| | 25# | 20 | 1.5 | 0.8 | 24 | 386.06 |
| | 25# | 25 | 1.5 | 0.5 | 24 | 480.65 |
| | 17# | 30 | 1.2 | 0.8 | 27 | 419 |
| | 17# | 50 | 2 | 0.5 | 20 | 420.1 |
| | 18# | 100 | 3 | 0.5 | 15 | 406.55 |
| | 18# | 150 | 4 | 0.5 | 12 | 460.5 |
| KD25 | 15# | 10 | 0.8 | 0.5 | 33 | 365.07 |
| | 15# | 15 | 1.2 | 0.8 | 27 | 349.06 |
| | 24# | 20 | 1.2 | 0.8 | 27 | 301.53 |
| | 24# | 30 | 1.5 | 0.8 | 24 | 350.04 |

Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

### Dimension Drawing(Unit: mm)




# Pump Head - KD Series

## KD15/KD25



### Product Introduction

- Compact structure.
- Support multiple pump heads in series.
- Open upper pressure block by flipping cover, easy to operate, and realize quick tubing replacement.
- A variety of rollers, supporting a variety of wall thicknesses for option.
- Rubbing wheel adjustment mechanism fix different diameters and materials tubing.

Pump Drive :

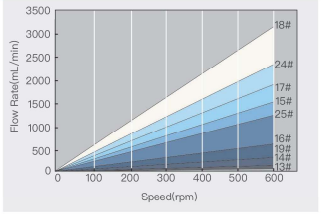
LabV-III LabN-III LabM-III

### Technical Specifications

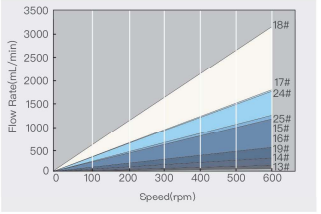
Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

| Pump Head | Tubing | | 3 Rollers | | 4 Rollers | | Speed (rpm) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | Size | IDxWall Thickness | (mL/r) | (mL/min) | (mL/r) | (mL/min) | | |
| KD15 | 13# | 0.8x1.6 | 0.0834 | 0.0083-50.3 | 0.0790 | 0.0079-47.37 | 0.1-600 | 0.37 |
| | 14# | 1.6x1.6 | 0.2807 | 0.0281-168.4 | 0.2673 | 0.0267-160.37 | | |
| | 19# | 2.4x1.6 | 0.6133 | 0.0613-367.97 | 0.5436 | 0.0544-326.13 | | |
| | 16# | 3.2x1.6 | 1.0058 | 0.1006-603.5 | 0.9425 | 0.0942-565.47 | | |
| | 25# | 4.8x1.6 | 2.2431 | 0.2243-1345.83 | 2.1033 | 0.2103-1262 | | |
| | 17# | 6.4x1.6 | 3.2968 | 0.3297-1978.1 | 2.9149 | 0.2915-1748.93 | | |
| | 18# | 7.9x1.6 | 5.0466 | 0.5047-3027.97 | 4.4833 | 0.4483-2690 | | |
| KD25 | 15# | 4.8x2.4 | 2.5127 | 0.2513-1507.6 | 1.9793 | 0.1979-1187.55 | | |
| | 24# | 6.4x2.4 | 3.9116 | 0.3912 2346.95 | 2.9092 | 0.2909 1745.5 | | |

3 Rollers Flow Rate(0.1–600rpm)




4 Rollers Flow Rate(0.1–600rpm)




Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

# Pump Head - KT15

## KT15



### Product Introduction

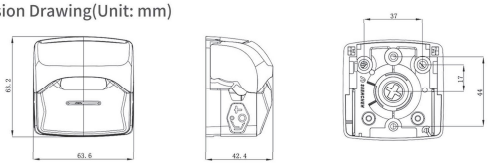
Exquisite appearance, small size. The upper pressing block is opened by a turning method, and the operation is simple. The elastic upper block can reduce tubing wear. Quickly replace tubing with self-adaptive tube clamp. Suitable for 5 different sizes of tubes to meet different flow rate requirements.

### Typical Application

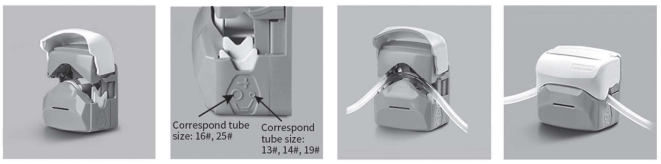
- Medical equipment, biotechnology, pharmaceutical
- Chemical and food industries

Pump Drive : LabQ LabT

### Dimension Drawing(Unit: mm)




### Tubing Installation Procedure




1. Lift the flip top of the pump head to open the pump head.
2. Adjust the tube holder to the position corresponding to the installed size.
3. Put the tubing into the pump head.
4. Close the flip top of the pump head downward to complete the installation.

### Technical Specifications

Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

| Pump Head | Channel number | Tubing | ID×Wall thickness(mm) | mL / r | Speed(rpm) | Flow Rate(mL/min) | Weight(kg) |
|---|---|---|---|---|---|---|---|
| KT15 | Single channel | 13# | 0.8×1.6 | 0.033 | 0.1~600 | 0.0033~19.97 | 0.096 |
| | | 14# | 1.6×1.6 | 0.156 | | 0.0156~93.42 | |
| | | 19# | 2.4×1.6 | 0.286 | | 0.0286~171.6 | |
| | | 16# | 3.2×1.6 | 0.477 | | 0.0477~286.32 | |
| | | 25# | 4.8×1.6 | 0.933 | | 0.0933~560.04 | |

# Pump Head - HandyPump

## HandyPump




### Product Introduction

- Front knob to open the pump head, save space.
- Automatic tubing retention makes tube loading easy and quick.
- Single and dual-channel head available.
- 5 different sizes tubing to meet different flow rate requirements.



Single channel HandyPump01



Dual channel HandyPump02

Pump Drive : ST-HandyPump

### Tubing Installation Procedure




1. Turn the knob anticlockwise 180°, open the upper block.



2. Put the tube between rollers and upper block, tighten up the tubing lightly.



3. Turn the knob clockwise 180°, put the upper block back to original position, fasten the tube.

### Technical Specifications

Experimental conditions:Standard atmospheric pressure, room temperature at 20°C,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

| Model | Channel number | Tubing | IDxWall thickness(mm) | mL/r (3 rollers) | mL/r (6 rollers) | Speed (rpm) | Flow Rate(L/min) (3 rollers) | Flow Rate(L/min) (6 rollers) | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| HandyPump01 | Single channel | 13# | 0.8×1.6 | 0.033 | 0.031 | 0.1~300 | 0.0033~10.03 | 0.0031~9.36 | 0.224 (3 rollers) |
| | | 14# | 1.6×1.6 | 0.187 | 0.126 | | 0.0187~56.09 | 0.0126~37.68 | |
| | | 19# | 2.4×1.6 | 0.371 | 0.215 | | 0.0371~111.17 | 0.0215~64.51 | |
| | | 16# | 3.2×1.6 | 0.636 | 0.345 | | 0.0636~190.76 | 0.0345~103.51 | 0.302 (6 rollers) |
| | | 25# | 4.8×1.6 | 1.219 | 0.636 | | 0.1219~365.69 | 0.0636~190.81 | |
| HandyPump02 | Dual channel | 13# | 0.8×1.6 | 0.033 | – | 0.1~300 | 0.0033~10.03 | – | 0.224 (3 rollers) |
| | | 14# | 1.6×1.6 | 0.187 | – | | 0.0187~56.09 | – | |
| | | 19# | 2.4×1.6 | 0.371 | – | | 0.0371~111.17 | – | |
| | | 16# | 3.2×1.6 | 0.636 | – | | 0.0636~190.76 | – | |

# Pump Head - UC15/UC20

## UC15/UC20



### Roller Assembly

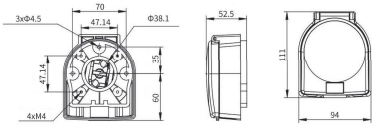


Pump Drive : LabV3-IV

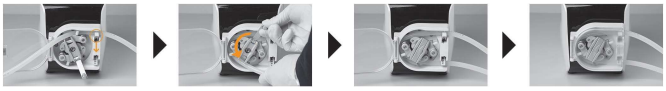
### Product Introduction

UC15/UC20 spring pump head is widely used for medical dialysis equipment. Transparent protective cover, can observe the working situation anytime; uncover signal output, stop working when uncover to ensure safety; Elastic roller assembly, running smoothly; manual lever help install the tube, and can finish liquid circulation when power down unexpectedly; support stepper motor ,DC motor.

### Dimension Drawing(Unit:mm)




### Tubing Installation Procedure



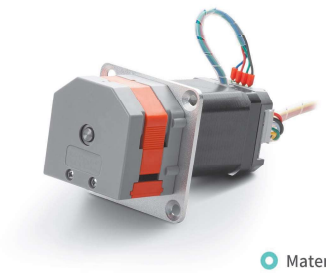
1. Press the pipe clamp, put the tube into the U shaped groove.
2. Put the tube between the two guide posts. Hold the spanner, rotate the wheel body.
3. Press the pipe clamp, put the tube into the U shaped groove.
4. Installation is finished.

### Technical Specifications

| Model | Housing Material | | Rollers assemble construction | Tubing | | Speed Range (rpm) | Flow Rate (mL/min) | Weight(kg) |
|---|---|---|---|---|---|---|---|---|
| | Base | Protecting cover | | Size | ID×Wall(mm) | | | |
| UC15 | PSF | PC | Spring-like structure | 16# | 3.2x1.6 | 0.1-350 | 0.1702-596 | 1.42 |
| | | | | 26# | 4.8x1.6 | | 0.3574-1251 | |
| | | | | 17# | 6.4x1.6 | | 0.6245-2186 | |
| | | | | 18# | 7.9x1.6 | | 0.9374-3281 | |
| UC20 | PSF | PC | Spring-like structure | Medical dialysis tube | 8×2 | 0.1-200 | 0.3910-782 | 1.42 |

# Pump Head - MiniPump

## MiniPump



### Product Introduction

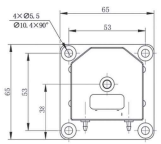
Minipump series products which adopt compact and embedded design are more suitable for supporting a variety of instruments and equipments. Single and dual channel are optional. It accepts 8 kinds of tubing. Flow rates are 0.0024-190 mL/min. PharMed BPT long-life tubing from French Saint-Gobain is installed in internal part of pump head. Applicable motors for Minipump are stepper motor, DC motor, AC motor and other modes to drive with wide applications.

### Material: PVDF

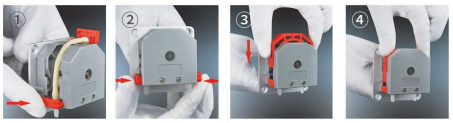


Pump Drive : LabT

### Dimension Drawing(Unit: mm)




### Tubing Installation Procedure



1. Make the two tubing clamps align the slide way of pump head two sides.
2. Ensure that the tubing is in the middle of rollers, and push the clamps into the pump head.
3. Make the compression block align the upper slide way of pump head.
4. Press the compression block into the pump head, and ensure it fixed.

### Technical Specifications

Experimental conditions:Standard atmospheric pressure, room temperature at 20°C,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

| Pump Head | Tubing | IDxWall(thickness(mm) | mL/r | Speed (rpm) | Flow Rate (mL/min) |
|---|---|---|---|---|---|
| MiniPump01 | 13# | 0.8×1.6 | 0.024 | 0.1~300 | 0.0024-8.28 |
| | 14# | 1.6×1.6 | 0.112 | | 0.0112-33.88 |
| | 19# | 2.4×1.6 | 0.252 | | 0.0252-77.23 |
| | 16# | 3.2×1.6 | 0.394 | | 0.0394-114.31 |
| | 25# | 4.8×1.6 | 0.652 | | 0.0652-190.00 |
| | 1×1 | 1×1 | 0.05 | | 0.005-15.01 |
| | 2×1 | 2×1 | 0.18 | | 0.018-54.63 |
| | 2.5×1 | 2.5×1 | 0.256 | | 0.0256-76.84 |
| | 3×1 | 3×1 | 0.356 | | 0.0356-108.39 |
| MiniPump02 | 1×1 | 1×1 | 0.05 | 0.1~300 | 0.005-15.01 |
| | 2×1 | 2×1 | 0.18 | | 0.018-54.63 |
| | 2.5×1 | 2.5×1 | 0.256 | | 0.0256-76.84 |
| | 3×1 | 3×1 | 0.356 | | 0.0356-108.39 |

# Pump Head - MicroPump

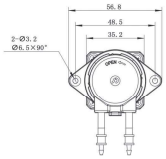
## MicroPump



### Product Introduction

Beautiful appearance,compact size,variety colors to choose, OEM ideal choice, can be driven by stepper motor, DC motor etc.

### Dimension Drawing(Unit: mm)




Pump Drive : LabK

### Tubing Installation Procedure



### Technical Specifications

Experimental conditions:Standard atmospheric pressure, room temperature at 20°C,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

| Flow model selection | | | | | |
|---|---|---|---|---|---|
| Tubing No. | | | B04 | B06 | B10 | B22 |
| Tubing ID. (wall thickness 1mm) | | | 1.0*1.1 | 2.0*1.0 | 3.0*1.0 | 4.0*1.0 |
| Tubing material | | | PharMed BPT | PharMed BPT | PharMed BPT | PharMed BPT |
| Flow rate (mL/min) | 24V Brush/Brushless HA/HD | Single gear | 14.88 | 50.05 | 110.27 | 149.23 |
| | | Double gear | 1.28 | 4.29 | 9.45 | 12.79 |
| | 12V Brush/Brushless HB/HE | Single gear | 14.88 | 50.05 | 110.27 | 149.23 |
| | | Double gear | 1.28 | 4.29 | 9.45 | 12.79 |
| | 6V Brush/Brushless HC/HF | Single gear | 14.88 | 50.05 | 110.27 | 149.23 |
| | | Double gear | 1.28 | 4.29 | 9.45 | 12.79 |
| | 35Stepper motor(350rpm)STB | | 14.88 | 50.05 | 110.27 | —— |
| | 42Stepper motor(350rpm)STA | | 14.88 | 50.05 | 110.27 | 149.23 |

# Peristaltic Pump Accessories

## A Filling Nozzle

| Name | Material | Picture |
|---|---|---|
| Reducer anti-splash filling nozzle | SS316 |  |
| Flat filling nozzle | SS304/316 |  |

## B One Way Check valve



Avoid liquid drop off after filling and transferring.

## C Filling Countersunk



Used for the input of tube, preventing the tube floating or absorbing the wall of container.

| Name | Material | Tube |
|---|---|---|
| Counter sunk | 304/316 stainless steel | 13', 14', 19', 16', 25', 17',18', 15', 24', 35', 36', 26', 73', 82' |

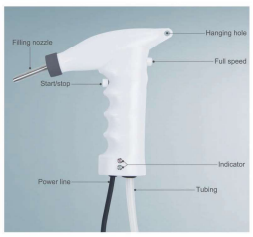
## D Fluid Pulse Damper



Special design for peristaltic pump, effectively suppress the peristaltic pump pulsation and improve the flow rate accuracy. The pulsation suppression rate can reach more than 95%.

Handling Dispenser Patent No: ZL201830096683.4; ZL201820353029.1

## E Handling Dispenser




| Filling nozzle and tubing cap | | | |
|---|---|---|---|
| Filling nozzle size | 13" | 14" | 19" |
| Inner diameter | 3mm | 3.5mm | 4.5mm |
| Picture |  |  |  |
| Filling nozzle size | 16" | 15°/25° | 17°/24° |
| Inner diameter | 5mm | 7mm | 9mm |
| Picture |  |  |  |
| Tubing size | 17" | 18" | Plum blossom cap |
| Inner diameter | 9.6mm | 11.1mm | |
| Picture |  |  |  |

Based on ergonomics design, elegant appearance, grip feeling comfortable, easy operation. Connect to peristaltic pump external control interface, with start/stop and full speed control, can realize transferring and dispensing function. Power supply and working indicator, show the dispenser working status. With hanging hole, can be hang up when do not use.

## F Foot Pedal Switch




Control the pump start/stop with foot pedal switch.

# Peristaltic Pump Accessories

## G Tube Connector



G Straight tube connector | H "Y" tube connector | I Tee tube connector | J Reducer tube connector | K "L" tube connector | L Flexible/Hard tube connector

## H PH Controller



Work with peristaltic pump, can control the liquid PH value, add acid or alkali automatically.
Function:
1. Liquid: Acid–Base Solutions
2. PH value : 0–14PH
3. Set up target PH value
4. Add acid or alkali liquid automaticall
5. Control: RS485 , 4–20mA
6. Power supply: DC24V (AC220V for option)
7. Suitable temperature: 0–60℃

## I 5V Sensor



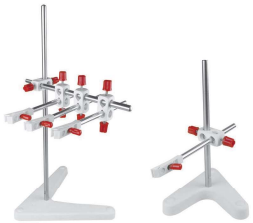
When applied in the dispensing line, it can detect weather there is filling bottle in the production line. When the bottle approach the sensor side, the switch action will be made without any mechanical contact or pressure, thereby providing filling control order to the pump. In the same way, when no filling bottle is detected, the stop filling control order is provided to the pump.

## J Benchtop Tubing Cutter



Stainless steel blade, makes right-angle cuts in several sizes of plastic tubing.

## K Support Stand





The multiple filling stand is suitable for more than 2 channels filling. It can hold 2–8 filling nozzles. We can customize the suiatble one according to your request.

# Peristaltic Pump Tubing

## Silicone Tubing

Platinum-cured silicone tubing: Soft, slightly transparent, smooth inner wall; low protein adhesion, low protein penetration, temperature range: -51~238℃.

### Micro Flow Rate Tubing

| Tubing Size | | 0.13×0.86 | 0.5×0.86 | 0.86×0.86 | 1.52×0.86 | 2.06×0.86 | 2.79×0.86 | 1×1 | 2×1 | 3×1 | 2.4×0.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tubing cross sections(1:1) | | • | • | • | • | • | • | • | • | • | • |
| Wall thickness (mm) | | 0.86 | | | | | | | 1.0 | | 0.8 |
| Inside diameter (mm) | | 0.13 | 0.5 | 0.86 | 1.52 | 2.06 | 2.79 | 1.0 | 2.0 | 3.0 | 2.4 |
| Maximum pressure (Mpa) | Continuous | 0.1 | | | | | | | | | |
| | Intermittent | 0.1 | | | | | | | | | |

### Basic Flow Rate Tubing

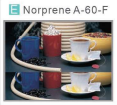
| Tubing Size | | 13" | 14" | 19" | 16" | 25" | 17" | 18" | 15" | 24" | 35" | 36" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tubing cross sections (1:1) | | • | • | • | • | • | • | • | • | • | • | • |
| Wall thickness | mm | 1.6 | | | | | | | 2.4 | | | |
| | inch | 1/16 | | | | | | | 3/32 | | | |
| Inside diameter | mm | 0.8 | 1.6 | 2.4 | 3.2 | 4.8 | 6.4 | 7.9 | 4.8 | 6.4 | 7.9 | 9.6 |
| | inch | 1/32 | 1/16 | 3/32 | 1/8 | 3/16 | 1/4 | 5/16 | 3/16 | 1/4 | 5/16 | 3/8 |
| Maximum pressure (Mpa) | Continuous | 0.17 | | | | 0.14 | 0.1 | 0.07 | 0.17 | | 0.14 | |
| | Intermittent | 0.27 | | | | 0.24 | 0.14 | 0.1 | 0.27 | | 0.24 | |

### Industrial Tubing

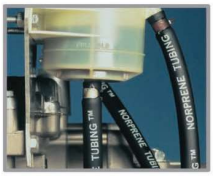
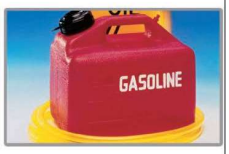
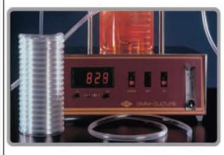
| Tubing Size | | 26" | 73" | 82" | 86" | 90" | 88" | 92" |
|---|---|---|---|---|---|---|---|---|
| Tubing cross sections (1:1) | | ⌒ | ⌒ | ⌒ | ⌒ | ◢ | ⌒ | ◢ |
| Wall thickness | mm | 3.3 | | | 6.4 | | 4.8 | |
| | inch | 1/8 | | | 1/4 | | 3/16 | |
| Inside diameter | mm | 6.4 | 9.6 | 12.7 | 9.5 | 19 | 12.7 | 25.4 |
| | inch | 1/4 | 3/8 | 1/2 | 3/8 | 3/4 | 1/2 | 1 |
| Maximum pressure (Mpa) | Continuous | 0.2 | | | 0.25 | | | |
| | Intermittent | 0.27 | | | 0.3 | | | |

# Peristaltic Pump Tubing

## SAINT-GOBAIN Tubing : Tygon, PharMed BPT, Norprene etc

| | A Tygon3350 | B Tygon E-3603 | C Norprene Chemical | D PharMed | E Norprene A-60-F |
|---|---|---|---|---|---|
| |  |  |  |  |  |
| Formulation | Tygon3350 | Tygon R-3603 | Norprene Chemical | PharMed | Norprene A-60-F |
| Application | Pharmaceutical, cosmetic, medical and autoanalysis application. | General laboratory, food & beverage, biopharmaceutical, analytical instruments. | Elcellent for chemical processing and general industrial applications. Food and beverage applications where extractables are a concern. | Cell and tissue culture work and pharmaceutical uses. Also good for light-sensitive samples. | Ideal for the food, dairy and beverage. |
| Advantages | Ultra-smooth; minimizes bacterial growth. Good for mild to medium concentration bases, salts and alcohols; odorless, tasteless, and nontoxic. Transparent. | Inexpensive tubing for general lab application. Nonaging,nonoxidizing. Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Low gas permeability. Smooth bore; good for viscous fluids. High dielectric constant. | Norprene thermoplastic elastomer outer jacket with chemically inert Tygon® 2075 inner bore for excellent chemical resistance. Plasticizer-free to guard against extractables. Long flex life. Opaque beige. | Great for tissue and cell work-nontoxic and nonhemolytic; long service life minimizes risk of fluidexposure; reduces tubing costs and pump downtime. Opaque to UV and visible light to protect light-sensitive fluids. Heat sealable, bondable, and formable. Extremely low gas permeability. | Heat, ozone, and UV light resistant. Nonaging; nonoxidizing; superior acid and alkali resistance. Opaque beige. |
| Application Suitability | ——— | ACIDS GOOD<br>ALKALIES GOOD<br>ORGANIC SOLVENTS NO<br>PRESSURE GOOD<br>VACUUM GOOD<br>VISCOUS FLUIDS EXCELLENT<br>STERILE FLUIDS GOOD | ——— | ACIDS GOOD<br>ALKALIES GOOD<br>ORGANIC SOLVENTS NO<br>PRESSURE GOOD<br>VACUUM EXCELLENT<br>VISCOUS FLUIDS GOOD<br>STERILE FLUIDS EXCELLENT | ——— |
| Physical characteristics | ——— | Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear. | ——— | Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm( stiff) material. Opaque, beige. | ——— |
| Temp.range | −75 to 450° F (−60–232° C) | −58 to 165° F (−50–74° C) | −76 to 165° F (−60–74° C) | −60 to 270° F (−59–135° C) | −60 to 275° F (−51–135° C) |
| Meets classifications | FDA 21 CFR 177.2600 USP Class VI EP 3.1.9. Exceeds 3A standards Manufactured according to GMP. | FDA 21 CFR 175.300 | None. | None. | FDA 21 CFR 177.2600 NSF listed ( Standard 51) Manufactured according to GMP. |
| Cleaning/ Sterilization | Ethylene oxide gamma irradiation, or autoclave for 30 min, 15psi (1 bar). | Unaffected by commercial sanitizers (with recommended procedures). Sterilize with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121℃ (250°F). 1KG/cm² (15psi) for 30 minutes (tubing will appear milky); air dry at max 66℃ (150°F) for 2 to 2 ½ hours until clear. | Sterilize with ethylene-oxide(ETO), autoclave or gamma irradiation up to 2.5Mrad. Repeated autoclaving will not affect overall life. | Autoclave, ethylene oxide, or gamma irradiation. | Autoclave. |

# Peristaltic Pump Tubing

| | F Norprene A-60-G | G Tygon F-4040-A | H Tygon LFL | I TYGON 2475 | K Viton |
|---|---|---|---|---|---|
| |  |   |  |  |  |
| Formulation | Norprene A-60-G | Tygon F-4040-A | Tygon LFL | TYGON 2475 | Viton |
| Application | For applications requiring excellent chemical, heat, ozone, and ultraviolet (UV) light resistance. | Fuels and industrial lubricants-gasoline, kerosene, heating oils, cutting compounds, and glycol-based coolants. Resists most hydrocarbons. | General laboratory use, provides longer life with peristaltic tubing pumps. | Sensitive fluid transfer applications requiring high purity. | Acid and solvent transfer, high-temperature. |
| Advantages | Best choice for vacuum/pressure applications.<br>Offers longest life with good flow consistency.<br>Heat and ambient ozone resistant.<br>Good resistance to acids/alkalies.<br>Black color hides dirt and dust.<br>Heat sealable, nonaging, and nonoxidizing.<br>High dielectric constant. | Resists embrittlement and swelling, ozone-and UV-resistant, with low-extractability. Translucent yellow. | Longest life of all Tygon® peristaltic tubing (1000hrs).<br>Nonaging, nonoxidizing.<br>lear for easy flow monitoring.<br>Broad chemical resistance; low gas permeability.<br>Smooth bore.<br>Good for viscous fluids.<br>High dielectric constant. | Plasticizer free, smooth inner surface (inhibits particulate buildup and bacterial growth), safely disposed of through incineration and nontoxic.<br>Transparent. | The most chemical resistant tubing.<br>Registand to corrosives, solvents, and oils at elevated temperatures.<br>Low gas permeability. |
| Application Suitability | ACIDS GOOD<br>ALKALIES GOOD<br>ORGANIC SOLVENTS NO<br>PRESSURE EXCELLENT<br>VACUUM EXCELLENT<br>VISCOUS FLUIDS EXCELLENT<br>STERILE FLUIDS NO | ——— | ACIDS GOOD<br>ALKALIES GOOD<br>ORGANIC SOLVENTS NO<br>PRESSURE GOOD<br>VACUUM GOOD<br>VISCOUS FLUIDS EXCELLENT<br>STERILE FLUIDS POOR | ——— | ACIDS EXCELLENT<br>ALKALIES EXCELLENT<br>ORGANIC SOLVENTS EXCELLENT<br>PRESSURE GOOD<br>VACUUM GOOD<br>VISCOUS FLUIDS GOOD<br>STERILE FLUIDS FAIR |
| Physical characteristics | Thermoplastic elastomer.<br>Polypropylene-based material with USP mineral oil.<br>Excellent tensile strength.<br>Firm ( stiff) material.<br>Opaque, black.<br>Manufactured according to GMP. | ——— | Thermoplastic.<br>PVC-based material with plasticizer.<br>Firm ( stiff) material.<br>Transparent, clear. | ——— | Thermal set rubber.<br>Viton B (67% fluorine)<br>Firm (stiff) material<br>Opaque, black.<br>Manufactured according to GMP. |
| Temp.range | −60 to 270° F<br>(−59~135° C) | −35 to 165° F<br>(−37~74° C) | −58 to 165° F<br>(−50~74° C) | −94 to 125° F<br>(−70~52° C) | −25 to 400° F<br>(−32~205° C) |
| Meets classifications | None. | Meets NSF-51 and 3A sanitary standards. | USP Class VI, FDA 21 CFR 175.300 | FDA 21 CFR 177.1520, USP 23 Class VI, Manufactured according to GMP. | None. |
| Cleaning/ Sterilization | Sterilize by autoclave only. | Not recommended. | Sterilize by ETO/autoclave. Coil loosely in nonlinting cloth or paper; autoclave at 250°F(121°C), 15 psi (1kg/cm²), 30 minutes ( tubing will appear milky); air dry at max 150°F (66°C) for 2 to 2 ½ hrs until clear. | Ethylene oxide or gamma irradiation. | Sterilization is not recommended. |


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