

Peristaltic Pumps



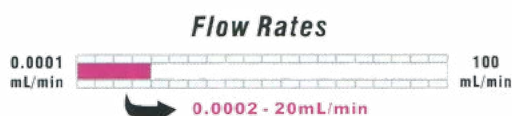
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PERISTALTIC PUMPS

Basic, Flow 0.0002–20ml/min



PP-X-20, Basic Micro Peristaltic Pump



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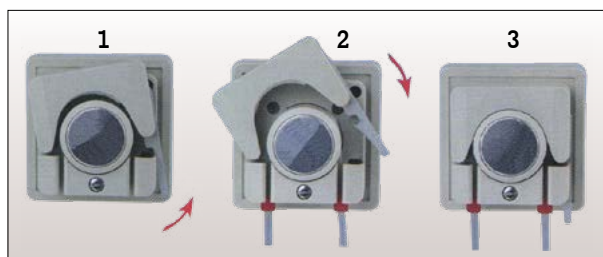
OEM



PP-X-20 peristaltic pump combines low flow and compact size into a single pump that mounts in the equipment rack or panel. The pump provides flow rates from 0.0002 to 20.0 mL/min. And it can be operated through hand-held remote controller, analog interface or RS485. White and black colors are available.

Features:

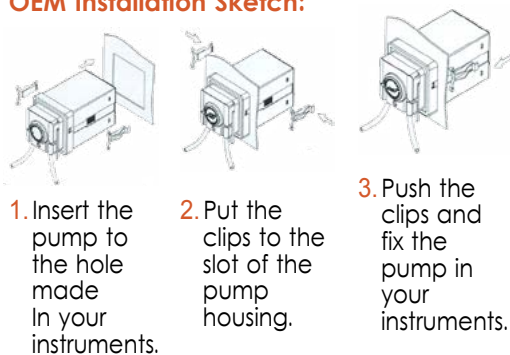
- **Prime Function:** Fast Filling, Fast Emptying
- **Memory function**
- **Ideal for OEM:** Compact size, Light weight
- **Installation Modes:** Inlaid, Rack
- **Control Modes:** Hand-held remote controller, Analog external control, Communication external control
- **Tube Loading:** Flexible, Reliable.



Specifications:

Speed	1 to 50rpm, reversible
Speed resolution	1rpm (External control 0.1rpm)
Speed control	Hand-held remote controller
Display	Hand-held remote controller displays speed range and running status
External control	Start/stop & cw/ccw control, 0 to 5V, 0 to 10V, 4 to 20mA and 0 to 10kHz speed control
Communication interface	RS485
Power Supply	DC 12V/1A adapter
Power consumption	<10W
Operating condition	Temperature 0 - 40°C Relative humidity <80%
Drive dimensions (LxWxH)	135x72x72 (mm)
Controller DIM. (LxWxH)	105x50x16 (mm)
Drive weight	0.5kg
IP rating	IP 31

OEM Installation Sketch:



Standard Configuration:

- Pump Head
- Drive
- Hand-held Remote Controller
- Adapter
- Data Wire.

Optional Accessories:

- Small V-base (149-1-000020)
- Polished Stainless Steel Frame Tube (149-1-000021)
- Fixed Plate (149-1-000022).

Model	Pump Head	Flow Rates (mL/min)	Tubing (mm)	Weight (Kg)
PP-X-20	YZ1014	0.0002-20	Wall Thickness: 0.8 - 1.0 Inner Diameter: s 3.17 ex. 0.5x0.8 1 x1 2x1 2.4x0.8 3x1 etc.	0.5

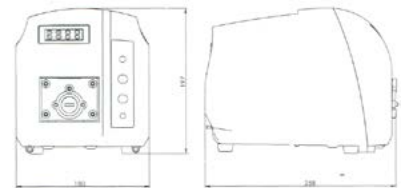
PP-X-575, Basic Speed –Variable Peristaltic Pump

PP-X-575 Basic Speed –Variable Peristaltic Pump flow range is 0.00016–570ml/min. Rotate speed is 0.1–150rpm. With basic functions such as reversible direction, start/stop, full speed (fast cleaning), adjust speed .Dispensing function can realize the repeat timing quantitative dispensing liquid .RS485 interface, as adopting the MODBUS communication protocol, the pump is easier to be connected with other equipments, such as computer ,human machine interface and PLC.

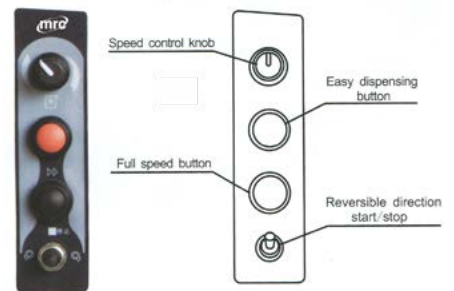


Functions and Features:

- Four-figure digital LED indicator displays working speed
- LED indicator displays the internal control, external control, footswitch and other working mode
- Mask keypad operation
- Reversible direction, start/stop, full speed, state memory (power-down memory)
- Easy dispensing function, it realizes the repeat timing quantitative dispensing liquid.
- 0.1–100 rpm, the speed resolution is 0.1 rpm. 100–150 rpm, the speed resolution is 1 rpm.
- ABS plastic housing, patent protection, creative streamlined appearance, beautiful and practical.
- Can drive multi-channels and various types of pump heads.
- The circuit board with conformal coating makes it dust-proof and moisture-proof.
- Super anti-interference feature, wide input voltage range, acceptable for the complex power environment.
- External high-low electrical level controls the start/stop, reversible direction and easy dispensing function, optically coupled isolator; External analog adjusts the rotate speed.
- RS485 interface, MODBUS protocol is available, easy to connect other equipments.
- Optional footswitch or timer for dispensing fluid.



Flow range (ml/min)	0.00016-570
Speed range (rpm)	0.1-150
Speed resolution (rpm)	When running speed is 0.1-100rpm, the resolution is 0.1rpm When running speed is 100-150rpm, the resolution is 1rpm
Speed accuracy	<0.5%
Power supply	AC 220V ±10%, 50Hz/60Hz (standard), AC 110V ±10%, 50Hz/60Hz (optional)
Power consumption	<30W
External control	Input electrical level 5V, 12V (standard), 24V (optional) External control analog 0-5V (standard), 0-10V, 4-20mA (optional)
External communication interface	RS485 communication interface support the MODBUS protocol.
Ambient temp.	0 ~ 40°C
Relative humidity	<80%
IP grade	IP31
Dimensions (LxWxH)	260mmx181mmx198mm
Weight	4.5KG



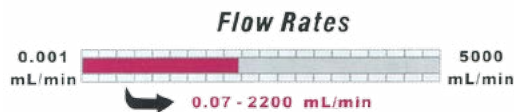
Specifications:

Model	Pump Head	Channel number	Tubing (mm)	One channel flow rate (ml/min)
PP-X-575	DG6-1 (6 rollers)	1	Wall 0.8 ~ 1, ID≤3.17	0.00016 ~ 49
	DG10-1 (10rollers)	1	Wall 0.8 ~ 1, ID≤3.17	0.00016 ~ 41
	DG6-2 (6 rollers)	2	Wall 0.8 ~ 1, ID≤3.17	0.00016 ~ 49
	DG10-2 (10 rollers)	2	Wall 0.8 ~ 1, ID≤3.17	0.00011 ~ 41
	DG6-4 (6 rollers)	4	Wall 0.8 ~ 1, ID≤3.17	0.00016 ~ 49
	DG10-4 (10 rollers)	4	Wall 0.8 ~ 1, ID≤3.17	0.00011 ~ 41
	YZ15	1	13#14#16#19#25#17#18#	0.0006 ~ 575
	YZ25	1	15#24#	0.1667 ~ 425



PP-X-2200

PP-X-2200/PP-X-1100, Basic Peristaltic Pumps



Acceptable pump head of YZ1515x, YZ2515x, YZ II 15, YZ II 25. The pump delivers flow rates from 0.07 to 2200 ml/min. The speed can be adjusted manually or automatically through external control interface. Dispensing function can be realized by connecting dispensing controller FK-1 C.

Specifications:

Model	PP-X-1100	PP-X-2200
Speed	1 to 300rpm, reversible	1 to 600rpm, reversible
Speed precision	1rpm	
Speed control	Rotary encoded switch	
Display	3-digit LED displays current speed	
External control	start/stop and cw/ccw control, 0 to 5V, 0 to 10V, 4-20 mA and 0 to 10Hz speed control	
Power supply	AC 90V - 260V 50/60Hz	
Operating condition	Temp. 0 to 40°C Relative humid. < 80%	
Dimensions (LxWxH)	285x207x180 (mm)	
Drive weight	3.6kg	3.8kg
Power consumption	< 48W	< 100W
IP rating	IP 31	

Functions and Features:

- Applicable pump heads: YZ1515x, YZ2515x, YZII15, YZII25
- Prime button for fast filling and emptying
- Adjust speed manually or automatically through external control
- Memory function, storing the running parameters automatically
- Realize computer control through RS-485 communication interface
- Indoor use only.

Applicable Pump Heads:



YZ1515x/YZ2515x

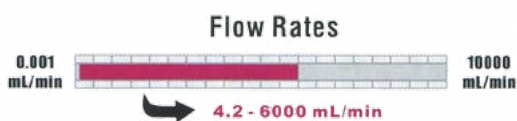
YZII15/YZII25

Model	Pump Head	Flow Rates (mL/min)	Tubing	Weight (Kg)
PP-X-1100	YZ1515x, YZII15	0.07 - 1140	13# 14# 19# 16# 25# 17# 18#	4.0
	YZ2515x, YZII25	1.7 - 870	15# 24#	
PP-X-2200	YZ1515x, YZII15	0.07 - 2200	13# 14# 19# 16# 25# 17# 18#	4.2
	YZ2515x	1.7 - 1600	15# 24#	
	YZII25	1.7 - 1600	15# 24#	



PP-X-6000

PP-X-6000, Basic Peristaltic Pump



PP-X-6000 peristaltic pump adopts brushless DC motor. It has features of high output torque, low vibration, high efficiency and free maintenance. It can drive double pump heads. It accepts many pump heads and delivers flow rates from 4.2 to 6000mL/min. The speed can be adjusted manually or automatically through external control.



Specifications:

Speed	60 to 600rpm, reversible
Speed accuracy	±1.0%
Speed resolution	1.0rpm
Output torque	≥1.50 N-M
External control	Start/stop & cw/ccw control, 0.5 to 5V, 1 to 10V, 4 to 20mA and 1-10kHz speed control
Communication interface	RS485
Power supply	AC 176 - 264V 50Hz/60Hz
Power consumption	≤200W
Operating condition	Temperature 0 to 40°C Relative humidity < 80%
Dimensions (LxWxH)	285x207x180 (mm)
Drive weight	5.2kg
IP rating	IP 31

Functions and Features:

- Prime button for fast filling and emptying
- Memory function: Store the speed and the address of the pump
- Communication function: Realize the computer control through RS485 interface
- Display: 3 digits LED displays the speed of the pump
- External control input: Control the speed, start/stop and direction of the pump
- Suitable for different pump heads and tubing for multiple application
- High output torque which can drive double pump heads
- Brushless DC motor, high output torque and free maintenance
- Operation mode: SWitch, button and knob. Easy to operate.

Applicable pump heads:



YZ1515x/YZ2515x

YZII15/YZII25

DMD25

KZ25

DG15-24

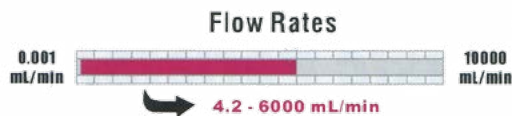
Model	Pump Head	Flow Rates (mL/min)	Tubing	Weight (Kg)
PP-X-6000	(1,2) xYZ1515x	4.2 - 2200	13# 14# 19# 16# 25# 17# 18#	5.6-6.0
	(1,2) xYZII15			
	(1,2) xYZ2515x	100 - 1600	15# 24#	
	(1,2) xYZII25	100 - 3000	15# 24# 35# 36#	6.0
	KZ25	200 - 6000		
	DG15 - 24	50 - 1800	16# 25# 17#	6.0
	DMD25 (≤350rpm)	30 - 4000	119# 120# 15# 24# 35# 36#	7.7



PP-W-6000

0.5-5V
4-20mA
1-10V
1-10kHz

PP-W-6000, Basic Peristaltic Pump



PP-W-6000 peristaltic pump is high IP rating and high efficiency. It adopts brushless DC motor and speed closed loop control. It has features of high output torque, low vibration and free maintenance. It accepts multiple pump heads and delivers flow rates from 4.2 to 6000 mL/min (single channel).



Specifications:

Speed	60 to 600rpm
Speed accuracy	±1.0%
Speed resolution	1.0rpm
Output torque	≥1.50 N-M
Display	3 digits LED displays current speed; 4 digits LED display the working state
Memory function	Storing the running parameters automatically
External control	0.5 - 5V, 1 - 10V, 4 - 20mA or 1 - 10kHz are corresponding to 60 - 600 rpm
Communication interface	RS485
Power supply	AC 176 - 264V 50Hz/60Hz
Power consumption	≤200W
Operating condition	Temperature 0 to 40°C Relative humidity < 80%
Drive Dimensions(LxWxH)	273x190x272 (mm)
Drive weight	7.3kg
IP rating	IP 31

Functions and Features:

- High IP rating: Suitable for moist and dust working condition
- Prime key: For fast filling and emptying
- Memory function: Storing the running parameters automatically
- Communication function: Realize the computer control through RS485 interface
- Display: 3 digits LED displays the speed of the pump
- External control input: Control the speed, start/stop and direction of the pump
- Suitable for different pump heads and tubing
- High output torque which can drive double pump heads
- Brushless DC motor, high output torque, free maintenance
- Operation mode: Switch and membrane keypad. Easy to operate.

Applicable pump heads:



YZ1515x/YZ2515x

YZ1115/YZ1125

DMD25

KZ25

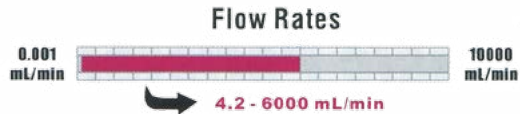
DG15-24

Model	Pump Head	Flow Rates (mL/min)	Tubing	Weight (Kg)
PP-W-6000	(1,2) xYZ1515x	4.2 - 2200	13# 14# 19# 16# 25# 17# 18#	7.7-8.1
	(1,2) xYZ1115			
	(1,2) xYZ2515x	100 - 1600	15# 24#	
	(1,2) xYZ1125	100 - 3000	15# 24# 35# 36#	8.1
	KZ25	200 - 6000		
	DG15 - 24	50 - 1800	16# 25# 17#	8.1
DMD25 (≤350rpm)	30 - 4000	119# 120# 15# 24# 35# 36#	9.8	



PP-F-380

PP-F-380, Flow Rates Peristaltic Pump



The acceptable pump heads for PP-F-380 are Lead15-48, Lead15-88, Lead15-24, Lead15-44 and max. 8 channels are available. The pump delivers flow rates from 0.005 to 380 mL/min. It has flow rates display and flow rates calibration functions. It also has functions of speed adjustment, start/stop, cw/ccw, prime (rinsing), tubing selection, RS485 communication, analog control, etc.

LAB

Standard External Control Interface - Order Separately

FLOW-RATE

Specifications:

Speed	1.0 to 100.0 rpm, reversible
Speed resolution	0.1rpm
Speed Control	Rotary encoded switch coupled with membrane keypad
Display	128x32 graphic LCD displays current running status
External control	Start/stop & cw/ccw control, 0 to 5V, 0 to 10V, 4 to 20mA and 0-10kHz speed control
Communication interface	RS485
Power supply	AC 90 - 260V 50Hz/60Hz
Power consumption	≤50W
Operating condition	Temperature 0 to 40°C Relative humidity < 80%
Dimensions (LxWxH)	190x162x275 (mm)
Drive weight	3.5kg
IP rating	IP 31

Functions and Features:

- Vertical structure
- Accept 4 special pump heads
- Display can switch between flow rates and speed
- Calibration function for the flow rates
- Computer control available through RS485 communication
- Prime key for fast filling and emptying.

Applicable pump heads:

LEAD15-24
(2 channels, 4 rollers)

LEAD15-44
(4 channels, 4 rollers)

LEAD15-48
(4 channels, 8 rollers)

LEAD15-88
(8 channels, 8 rollers)

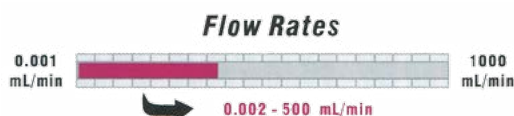
Model	Pump Head	Flow Rates (mL/min)	Tubing	Weight (Kg)
PP-F-380	LEAD15-24	1 - 380	16# 25# 17#	4.36
	LEAD15-44			4.42
	LEAD15-48	0.005 - 75	Inner Diameter ≤3.17mm, Wall Thickness 0.8 -1.0mm	4.48
		0.07 - 20		
	LEAD15-88	0.005 - 75	Inner Diameter ≤3.17mm, Wall Thickness 0.8 -1.0mm	4.48
		0.07 - 20		

PERISTALTIC PUMPS Flow Rates, Flow 0.002–500ml/min



PP-L-500

PP-L-500, Flow Rates Peristaltic Pump



The max. output torque of PP-L-500 drive is 1.65 N·M. Multiple pump heads are available. The pump delivers flow rates from 0.002 to 500 mL/min. 128 x 64 graphic LCD displays running menus and parameter setting menus. The flow rates and the speed (rpm) can be displayed in the same screen. The display interfaces are friendly. It has flow rates calibration function. It has many control modes. The external control can be realized through standard external interface or RS485 communication interface.

Functions and Features:

- Display can switch between flow rates and rpm
- Calibration capability for the flow rates
- Graphic LCD together with rotary encoded switch make the pump easy to use
- Higher torque to accept more pump heads and more channels
- RS485 communication interface available. Offering communication protocol to customer and customizing software according to customer's requirements.

LAB



Standard External Control Interface—Order Separately

FLOW-RATE

Specifications:

Speed	1.0 to 100rpm, reversible
Speed resolution	0.1rpm
Speed control	Rotary encoded switch coupled with membrane keypad
Display	128x64 graphic LCD displays current running status
External control	start/stop & cw/ccw control, 0 to 5V, 0 to 10V, & 4 to 20mA speed control
Communication interface	RS485
Power supply	AC 220V ± 10% 50Hz/60Hz(standard) AC 110 V ± 10% 50Hz/60Hz(optional)
Power consumption	<50W
Operating condition	Temperature 0 to 40°C Relative humidity < 80%
Drive Dimensions(LxWxH)	202x160x239 (mm)
Drive weight	5.34kg
IP rating	IP 31

Applicable pump heads:



DG-2 to DG-24 YZ1515x/YZ2515x

YZ115/YZ1125

DG15-24/28/48

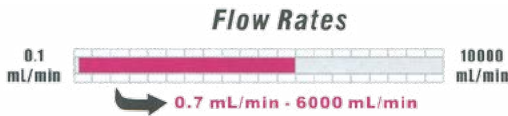
Model	Pump Head	Flow Rates (mL/min)	Tubing	Weight (Kg)
PP-L-500	DG15 - 24	1 - 380	16# 25# 17#	6.16
	DG15 - 28/DG15-48	0.005 - 75	Wall Thickness: 0.8 -1.0 (mm) Inner Diameter: ≤3.17mm 13# 14#	6.01
	DG - (2,4,6,8,12,16,24) (6,10 rollers)	0.0025 - 48 (6 rollers) 0.002 - 32 (10 rollers)	Wall Thickness: 0.8 -1.0 (mm) Inner Diameter: ≤3.17mm	5.82 - 8.70
	(1,2,3,4) xYZ1515x (1,2,3,4) xYZ1115	0.07 - 380	13# 14# 19# 16# 25# 17# 18#	5.76 - 7.02
	(1,2,3,4) xYZ2515x	1.7 - 270	15# 24#	5.76 - 7.02
	(1,2) xYZ1125	1.7 - 500	15# 24# 35# 36#	5.70 - 6.04



PP-F-500

Model	PP-F-500	PP-F-6000
Speed	0.1-100rpm, reversible	10-600rpm, reversible
Dispensing volume	0.01 mL to 9.99L	0.1 mL to 9.99L
Speed resolution	0.1rpm	1rpm
Copy number	0 to 9999, 0 means unlimited c cle.	
Pause time	0.1 see to 99.9 min	
Flow rates calibrating time	0.5-30min	
External Control	Start/stop & cw/ccw control, 0 to 5V, 0 to 10V, 4-20mA and 0 to 10Hz speed control	
Output interface	Start/Stop, direction output & 0-10 kHz frequency output, OC gate output	
Operating condition	Temperature 0-40 °C, relative humidity <80%	
Drive DIM.	285x207x180 (mm)	
Power Supply	AC100-240V, 50/60Hz	AC176-264V±10%,50/60Hz
Power consumption	<40W	<140W
Drive weight	3.8kg	5.2kg
IP rating	IP 31	

PP-F-500/PP-F-6000, Dispensing Peristaltic Pump



These two kinds of Dispensing Peristaltic Pump can dispense liquid precisely and have calibration function. They can be controlled through standard external interface or RS485 communication interface.

Functions and Features:

- Small liquid volume dispensing: PP-F-6000 can dispense liquid volume in mL unit, and PP-F-500 can dispense liquid volume in µL and mL unit
- Back suction function: In dispensing mode, the pump runs reversely after finishing on filling operation to prevent the liquid from dripping
- Operating mode: Membrane keypad and rotary encoded switch
- Control mode: Pumps can be controlled by membrane on it or through external control
- Display: LCD displays current running status and parameters
- Prime Key: For fast filling and emptying
- Memory function: Storing the running parameters automatically
- Calibration function: The flow rates and dispensing volume can be calibrated
- Communication interface: RS485, MRC company can provide relative protocol.

LAB

Standard External Control Interface-Order Separately

FLOW-RATE

DISPENSING

Applicable pump heads:



Model	Pump Head	Flow Rates (* /min)	Tubing	Weight (Kg)
PP-F-500	YZ1515x, YZII15	7µL - 380mL	13# 14# 19# 16# 25# 17# 18#	4.2
	YZ2515x	0.17mL - 270mL	15# 24#	
	YZ II 25	0.17mL - 500mL	15# 24# 35# 36#	
	DG-1, DG-2, DG-4 (6 rollers)	0.25mL - 48mL	Wall Thickness: 0.8 - 1.0 (mm) Inner Diameter: ≤3.17 mm	4.0 - 4.2
	DG-1, DG-2, DG-4 (10 rollers)	0.2mL - 32mL		
PP-F-6000	(1,2) xYZII25	0.7 - 2200	13# 14# 19# 16# 25# 17# 18#	5.6 - 6.0
	(1,2) xYZII15			
	(1,2) xYZ2515x	17 - 1600	15# 24#	
	(1,2) xYZII25	17 - 3000	15# 24# 35# 36#	6.0
	KZ25	34 - 6000		
	DG15 - 24	8.2 - 1800	16# 25# 17#	6.0
	DMD25 (≤350rpm)	5 - 4000	119# 120# 15# 24# 35# 36#	7.7

* Max. speed for DMD25 is 350 rpm

PERISTALTIC PUMPS Dispensing, Flow 0.07–1140ml/min

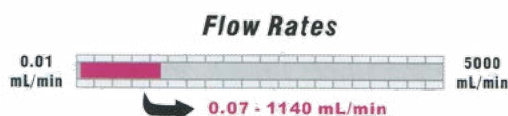


PP-F-1140

Specifications:

Speed	1.0 to 300rpm, reversible
Speed resolution	1rpm
Speed control	Rotary encoded switch coupled with membrane keypad
Display	128x64 graphic LCD displays flow rates, speed or dispensing mode
Copy number	1 to 999
Dispense volume	0.1mL to 99.9L
Pause time	1 to 999 s
Back suction angle	0 to 360, 18° increments
External control	Start/stop and cw/ccw control, 0 to 5V, 0 to 10V, and 4 to 20mA speed control
Output interface	Start/Stop, direction output and 0-10 kHz frequency output, OC gate output
Communication interface	RS485
Power supply	AC 220V ± 10% 50Hz/60Hz(standard) AC 110 V ± 10% 50Hz/60Hz(optional)
Power consumption	<50W
Operating condition	Temperature 0 to 40°C Relative humidity < 80%
Drive Dimensions(LxWxH)	202x160x239 (mm)
Drive weight	4.3kg
IP rating	IP 31

PP-F-1140, Dispensing Peristaltic Pump



Applicable pump heads for PP-F-1140 are YZ1515x, YZ2515x, YZ1115, YZ1125. The pump delivers flow rates from 0.07 to 1140 mL/min. 128 x 64 graphic LCD displays running menus and parameters setting menus. The display interfaces are friendly. It has many control modes. The external control can be realized through standard external control interface or RS485 communication interface.

Functions and Features:

- Acceptable pump heads: YZ1515x, YZ2515x, YZ1115, YZ1125
- Set pause time to realize dispensing and filling automatically
- Display can switch between flow rates and rpm
- Calibration function for the flow rates
- RS485 communication interface available. Offering communication protocol to customer and customizing software according to customer's requirements.

LAB



Standard External Control Interface—Order Separately

FLOW-RATE

DISPENSING

Applicable pump heads:



YZ1115/YZ1125

YZ1515x/YZ2515x

Model	Pump Head	Flow Rates (mL/min)	Tubing	Weight (Kg)
PP-F-1140	YZ1515x YZ1115	0.07 - 1140	13# 14# 19# 16# 25# 17# 18#	4.7
	YZ2515x YZ1125	1.7 - 870	15# 24#	4.7

INDUSTRIAL
IP55



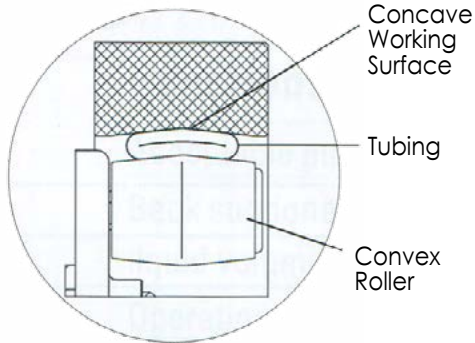
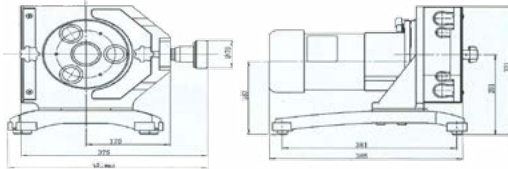
PP-B-35L, Batch Transferring Pump

Flow Rates



Functions and Features:

- High-power pumps, and the maximum flow rates can reach 35L/min
- The structure of concave working surface and convex roller realizes the tubing self-position function. It reduces abrasion and prolongs tubing life
- Variable frequency speed control to AC motor with creeper gear
- Adjustable occlusion
- Strong drive
- Pump head operation is visible through transparent front cover.

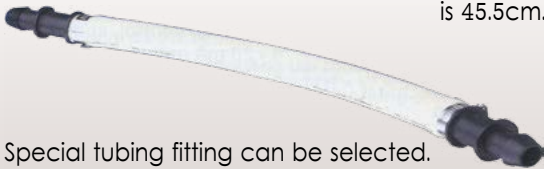


Specifications:

Model	PP-B-35L
Speed	30-350rpm, reversible
Speed resolution	0.6rpm
Power Supply	AC220V ± 10%, 50/60Hz
Power consumption	<400W
Operating condition	Temperature 0 to 40°C Relative humidity < 80%
Dimensions (LxWxH)	417x401x321 (mm)
Pump weight	32kg
IP rating	IP 55

Tubing Fitting Structure:

The length of the tubing between two fitting is 45.5cm.



Special tubing fitting can be selected. Low cost tubing can be used outside of the pump head if using tubing fitting. Suitable for industrial application.

Tubing Loading:

1. Turn the knob **-1-** **-2-** counter clockwise
2. Turn the hand wheel to loose the compression block
3. Pull the knob **-3-** and take out the front cover.
4. Select suitable tubing slots. Place the tubing between the roller and the compression block, then put the tubing in the corresponding tubing slots.
5. Pull the knob **-3-**, insert the front cover, tighten the knob **-1-**
6. Turn the hand wheel and adjust the occlusion between the roller and the compression block
7. Tighten the knob **-2-** and fix the compression block.

Model	Pump Head	Flow Rates (L/min)	Tubing	Weight (Kg)
PP-B-35L	KZ48/63	1.3 - 15	88#	32
		3 - 35	92#	

PERISTALTIC PUMPS Intelligent Dispensing



PP-TID-575

- Super anti interference feature, wide input voltage range, acceptable for the complex power environment.
- ABS plastic housing, creative streamlined appearance.
- Can drive multi channels & various types of pump heads.
- Optional footswitch or timer for dispensing fluid.



PP-TID-575/1340/2300, Intelligent Dispensing Peristaltic Pump

PP-TID-575/1340/2300 The pump adopts color LCD touch screen with intuitive and clear displaying interface, easy to operate. Mainly used for accurate measurement and distribution of fluid. If need high accuracy when dispensing, volume dispensing mode is available; if need high producing efficiency, time dispensing mode is more convenient; if want to separate fluid to number of equal parts, copy dispensing mode would be best. When working on flow mode, it is as same as intelligent flow peristaltic pump. The pump adopts intelligent temperature control technology to reduce working noise. RS485 interface, as adopting the MODBUS communication protocol, the pump is easier to be connected with other equipments, such as computer, human machine interface and PLC.

Function and Feature:

- Color LCD displaying, touch screen & keypad for operating.
- Three types of distributing mode: time dispensing mode; volume dispensing mode; copy dispensing mode.
- Automatically store five groups of working parameters.
- Precious controlling technology for motor's rotating angle increases the dispensing accuracy comparing to traditional time dispensing mode.
- Reversible direction, start/stop and full speed, state memory (power—down memory).
- Speed resolution is 0.1rpm.
- Display and control flow rate, accumulate dispensing volume automatically.
- Calibrating flow function.
- The operating expert system guides users setting parameters correctly.
- Intelligent temperature control technology reduces working noise.
- External high—low electrical level controls the start/stop, reversible direction and easy dispensing function, optically coupled isolator; external analog adjusts the rotate speed.
- RS485 interface, MODBUS protocol is available, easy to connect other equipments.
- Internal double deck isolation structure; circuit board with conformal coating makes it dust proof & moisture proof.

Technical parameters	PP-TID-575	PP-TID-1340	PP-TID-2300
Flow range (ml/min)	0.00016-575	0.006-1340	0.006-2300
Speed range (rpm)	0.1-150	0.1-350	0.1-600
Speed resolution (rpm)	0.1rpm		
Flow accuracy/Power supply	<0.5% / AC 220V ± 10% 50Hz/60Hz (standard); AC 110± 10% 50Hz/60Hz(optional)		
Power consumption	<30W	<40W	<50W
External control	Input level 5V,12V (standard), 24V (optional) External control analog 0-5V (standard), 0-10V, 4-20mA(optional)		
Communication interface	RS485 communication interface, MODBUS protocol is available.		
Operating condition	Temperature 0-40°C; Relative humidity <80%		
IP grade	IP31		
Dimensions (LxWxH)	223x150x195 (mm)		
Weight	4.5kg	4.7kg	4.9kg

Applicable Pump Head And Tubing, Flow Rate Parameters

Drive type	Pump head	Channel number	Tubing(mm)	Flow rate (ml/min)
PP-TID-575	DG (6 rollers)	1,2,4	Wall 0.8~1, ID≤3.17	0.00016-49
	DG (10 rollers)	1,2,4	Wall 0.8~1, ID≤3.17	0.00011-41
	YZ15	1	13#14#16#19#25#17#18#	0.006-575
	YZ25	1	15#24#	0.1667-425
PP-TID-1340	YZ15	1	13#14#16#19#25#17#18#	0.006-1340
	YZ25	1	15#24#	0.1667-990
PP-TID-2300	YZ15	1	13#14#16#19#25#17#18#	0.006-2300
	YZ25	1	15#24#	0.1667-1700



PP-T-575



PP-T-575/1340/2300, Intelligent Flow Peristaltic Pump

PP-T-575/1340/2300 Intelligent flow peristaltic pump adopts color LCD and touch screen technology, the operator can input the flow rate directly. Simple operation, the operating interface is intuitive. This product mainly uses in controlling the flow transmission, the highest accuracy of controlling flow is 0.5%. Unique dispensing function realizes the repeat timing quantitative dispensing. RS485 interface, as adopting the MODBUS communication protocol, the pump is easier to be connected with other equipments, such as computer, human machine interface and PLC.

Function and Feature:

- Color LCD displaying, touch screen & keypad for operating.
- Reversible direction, start/stop and full speed, state memory (power-down memory).
- Speed resolution is above 0.1rpm.
- Display and control flow rate, accumulate dispensing volume automatically.
- Calibrating Flow function.
- Easy dispensing function, it realizes the repeat timing quantitative dispensing, without the time controller.
- The operating expert system guides users setting parameters correctly.
- Intelligent temperature-control technology reduces working noise.
- External high-low electrical level controls the start/stop, reversible direction & easy dispensing function, optically coupled isolator; external analog adjusts the rotate speed.
- RS485 interface, MODBUS protocol is available, easy to connect other equipments.
- Internal double-deck isolation structure; circuit board with conformal coating makes it dust-proof & moisture-proof.
- Super anti-interference feature, wide input voltage range, acceptable for the complex power environment.
- Stainless steel housing, easy to clean, excellent resistance to the corrosion of the acid, alkali, sodium & organic solvents.
- Can drive multi-channels & various types of pump heads.
- Optional footswitch or timer for dispensing fluid.

Technical parameters	PP-T-575	PP-T-1340	PP-T-2300
Flow range (ml/min)	0.00016-575	0.006-1340	0.006-2300
Speed range (rpm)	0.1-150	0.1-350	0.1-600
Speed resolution(rpm)	0.1rpm		
Flow accuracy	<0.5%		
Power supply	AC 220V ± 10% 50Hz/60Hz (standard); AC 110± 10% 50Hz/60Hz(optional)		
Power consumption	<40W	<50W	<60W
External control	Input level 5V,12V (standard), 24V (optional) External control analog0-5V (standard), 0-10V, 4-20mA(optional)		
Communication interface	RS485 communication interface, MODBUS protocol is available.		
Operating condition	Temperature 0-40°C; Relative humidity <80%		
IP grade	IP31		
Dimensions (LxWxH)	223x150x195 (mm)		
Weight	4.7kg	4.9kg	5.2kg

Applicable Pump Head And Tubing, Flow Rate Parameters

Drive type	Pump head	Channel number	Tubing(mm)	Flow rate (ml/min)
PP-T-575	DG (6 rollers)	1,2,4,8,12	Wall 0.8~1, ID≤3.17	0.00016-49
	DG (10 rollers)	1,2,4,8,12	Wall 0.8~1, ID≤3.17	0.00011-41
	YZ15	1,2,4	13#14#16#19#25#17#18#	0.006-575
	YZ25	1,2,4	15#24#	0.1667-425
PP-T-1340	YZ15	1,2	13#14#16#19#25#17#18#	0.006-1340
	YZ25	1,2	15#24#	0.1667-990
PP-T-2300	YZ15	1,2	13#14#16#19#25#17#18#	0.006-2300
	YZ25	1,2	15#24#	0.1667-1700



PP-X-11L

4-20mA
1-10kHz
0-10V

PP-X-11L, Industrial Peristaltic Pump



INDUSTRIAL

IP54

WATER PROOF

The pump delivers flow rates from 600 to 11000 mL/min. The speed can be adjusted manually or automatically through external control interface. Driven by DC motor YT6001J has higher torque and can drive double pump heads. Suitable for industrial applications which need high pressure and flow rates.

Applicable pump heads:



KZ35

YZ35-13

Specifications:

Speed	60-600 (rpm) , reversible
Speed control	10 turn potentiometer
Power supply	AC 220V ± 1 0% 50/60Hz
Power consumption	<400W
Operating condition	Temperature 0 to 40°C Relative humidity < 80%
External control	Start/stop control, speed control (0 - 10kHz, 0 - 10V, 4 - 20mA optional, 4 - 20mA is standard configuration)
Dimensions (LxWxH)	325x236x193 (mm)
Drive weight	20kg
IP rating	IP 54

Functions and Features:

- Acceptable pump heads: YZ35-13, KZ35
- Suitable for industrial applications
- Can be equipped with MRC Dispensing Controller for filling function when connecting single channel pump head.

Model	Pump Head	Flow Rates (mL/min)	Tubing	Weight (Kg)
PP-X-11L	YZ35-13	600 - 11000	73# 82#	21.65
	KZ35	600 - 11000		23.7
	2xYZ35-13	600 - 11000		23.3
	2xKZ35	600 - 11000		27.4



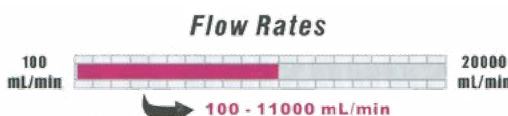
4–20mA
1–10kHz
0–10V
0–5V

PP-F-11L

Specifications:

Model	PP-F-11L
Flow Rates	100 to 1100ml/min
Dispensing volume	100ml to 999 Liters
Speed	10–600rpm
Copy Number	0 to 9999, "0" means running continuously
Pause time	1s to 99.9min
Back suction	a to 9.9 revolutions, (precision is 0.1 revolution)
Calibration time	30 to 1800 seconds
External control input	Start/stop control, direction control, flow rates control (0–5V, 0–10V, 4 – 20mA , 0–10kHz optional)
External control output	Start/stop output, direction output, 0–7.5kHz frequency output corresponding to 0 to 600rpm
Communication interface	RS485
Power	AC 176 – 264V, 50/60Hz
Power consumption	<300W
Operating condition	Temperature 0 to 40°C Relative humidity < 100%
DIM. (LxWxH)	360 x 215 x 243 (mm)
Drive weight	12Kg
IP Rating	IP 65

PP-F-11L, Industrial Peristaltic Pump



PP-F-11L is a high IP rating and high efficient pump with high-power DC brushless motor, it is suitable for working in dust and damp industrial environment. It delivers flow rates from 100 to 11000 ml/min and dispensing volume from 100ml to 999 Liters when loading YZ35 or KZ35 pump head. WT6004F adopts 128 x 32 LCD to display all the running information and parameters and membrane keypad to set parameters. It is easy to operate. This pump can be controlled manually or externally through standard external control module and RS485.

Functions and Features:

- Acceptable pump head: YZ35–13, KZ35
- Back suction: Prevent dripping of liquid when dispensing a certain liquid volume
- Operating mode: Membrane keypad to set parameters and operation
- Control mode: Pump can be controlled internally through membrane keypad or externally through external control modules
- Display: LCD displays all the running information and parameters
- Prime function: Fast filling or emptying the tubing
- Memory function: Save the parameters and working status automatically
- Calibration: The flow rates and dispensing volume can be calibrated.

Adopting water-proof aviation plug as external control interface to transmit external control signal.

INDUSTRIAL

IP65

FLOW-RATE

DISPENSING

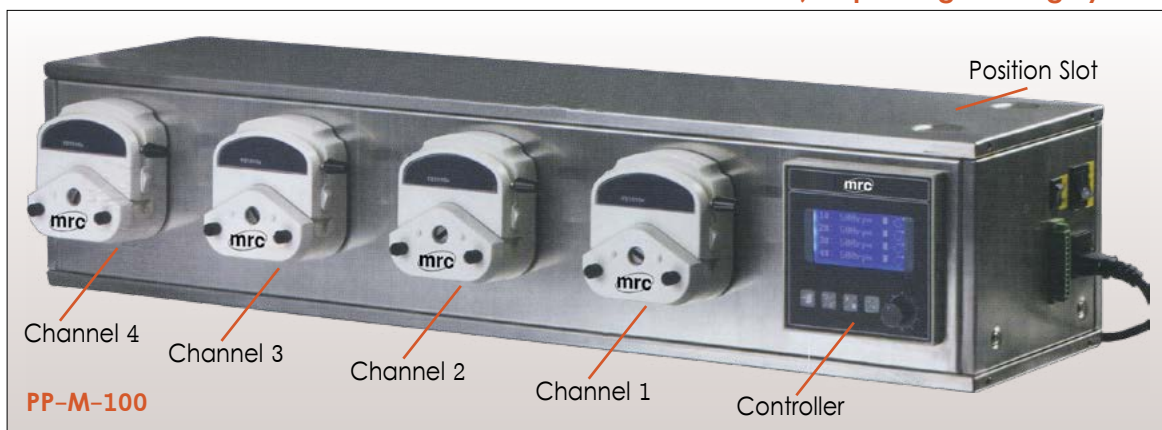
WATER PROOF

Model	Pump Head	Housing Material	Flow Rates (mL/min)	Tubing	Weight (Kg)
PP-F-11L	YZ35-13(1,2)	PSU	100 – 11000 (Single Channel)	73# 82#	13.65 – 15.3
	KZ35 (1 ,2)	304 Stainless Steel			15.7 – 19.4

PP-M-100, Dispensing & Filling System

FLOW-RATE

DISPENSING



Specifications:

Dispensing volume	0.5 – 100mL
Dispensing time	0.5 – 30s
Time precision	0.01s
Max. speed	600rpm
Back suction time	0.00 – 1.00s
External control	Filling-start, filling-stop without bottles (Contact closure)
Filling unit dimensions (LxWxH) for 4 channels	800x200x174(mm)
Filling unit weight for 4 channels	18.7kg
IP rating	IP 31

Dispensing and Filling System is the peristaltic pump system with auto control function. It consists of 3, 4 or 5 units peristaltic pumps of autonomous working and a dispensing and filling controller. It can be mounted on the dispensing and filling acquirments to realize non-contaminated and accurate dispensing and filling for medicine or fluids. It adopts stacking structure. Different combinations are available to meet the requirements of the customers.

Functions and Features:

- One unit has 3, 4 or 5 channels. Max. 12, 16 or 20 channels (4 units) are available
- Each channel is controlled separately. Easy to use
- Back suction function is available. Avoid liquid spillage
- Control parts adopt plug in structure. Easy to maintain
- Flow rates calibration function for the dispensing volume
- Realize the function of filling stop without bottles
- 128 x 64 graphic LCD display and friendly user interface
- Computer control is available through RS485 communication.



Model	Pump Head	Dispensing (mL)	Tubing	Dispensing Time (s)	Speed (rpm)	Accuracy ±%	Productivity (pcs/min)
PP-M-100	YZ1515x YZ2515x	0.5	13#	1.2	350	2	25
		1	13#	2	425	1	15
		2	14#	1	450	2	30
		3	14#	1	450	2	20
		5	19#	1.2	500	2	25
		7	16#	1.2	428	2	25
		10	25# 15#	1	360	2	30
		20	17# 24#	1.2	375	2	30
		50	17# 24#	2	550	1	15
		100	17# 24#	4	550	0.5	15

OEM, Products

OEM Applications:

- Fluids sampling of inspection or testing instruments
- Dispensing and filling fluids equipment
- Feeding of fluids equipment
- Other fluids transfer

Type	Introduction	Functions and Features	Specifications
 <p>BTM10/TH15</p>	<p>OEM10 has eleven kinds of optional fixed speed which can deliver max. flow rates of 167 ml/rnin, it is one of ideal OEM product and has been widely used in environment monitoring, ferment, and filling industry, etc.</p>	<p>OEM10 adopts AC synchronous motor which has stable speed and high repeatability. Pump head with two spring rollers can reduce the abrasion of tubing and prolong the tubing life.</p>	<p>Speed: Eleven kinds of fixed speed Power supply: AC220V 50-60Hz Power consumption: 15W Dimension: 105.5 x 110 x 80 (mm) Weight: 0.7kg</p>
 <p>BTMBJ60-01/WX10</p>	<p>The pump delivers flow rates from 0.001 to 24 mL/min. The speed can be adjusted by BCD dial switch which is divided into 15 levels, or controlled by external pulse.</p>	<p>Suitable for tubing which the inner diameter is less than 3.17 mm and wall thickness is from 0.8 to 1.0 mm. Reasonable and fine shape, compact size, DC power supply, ideal for OEM.</p>	<p>Speed: 0-60rpm, reversible Speed precision: 1 rpm Speed control: BCD dial switch Power supply: DC12V/1A Power consumption: ≤10W Dimension: 116x60x73(mm) Weight: 0.55 kg</p>
 <p>BTMBJ100-01/JY15-12</p>	<p>The pump delivers flow rates from 0.7 to 170 mL/min. The speed can be adjusted by BCD dial switch which is divided into 15 levels, or controlled by external pulse.</p>	<p>Suitable for tubing with wall thickness of 1.6mm. Low speed, high flow rates, long life. Reasonable and fine shape, compact size, DC power supply, ideal for OEM</p>	<p>Speed: 0 – 100 rprn, reversible Speed precision: 1 rpm Speed control: BCD switch, the increment is 5 rpm when the speed is less than 50 rpm and the increment is 10 rpm when the speed is more than 50 rpm Power supply: DC12V/2A Power consumption: Less than 25W Dimension: 118x60x86(mm) Weight: 0.58 kg</p>
 <p>BTM103/DG-2</p>	<p>OEM103 adopts step motor with bracket and shock absorption parts which reduce the vibration and make it easy to load pump head. It has been widely used in flow injection analysis instrument and ultraviolet radiation analysis instrument.</p>	<p>Driver need to be designed or selected to drive the step motor. Acceptable pump heads are VZ and DG Series pump heads.</p>	<p>Max. Speed: 100 rpm COG pump heads) 300 rpm (VZ pump heads) Dimension: 130x120x115(mm) Weight: 1.2 kg</p>
 <p>BTMDC12-02/WX15-12</p>	<p>OEMDC12-02/WX15-12 delivers the maximum flow rates of 22ml/rnl, small size; it is suitable to be built in customers equipment.</p>	<p>OEMWX15-12 adopts DC gear motor and 16# silicon tubing, user can control flow rates by adjusting voltage of motor.</p>	<p>Speed: 0-100 rpm, reversible Power supply: DC12V Dimension: 70x60x50(mm) Weight: 0.2kg</p>
 <p>BTMT1 00-S1/JY15-24</p>	<p>OEMT100-S1 is one kind of small & medium flow rates, dual-channel OEM peristaltic pump; it has compact structure and provides flow rates from 0.1 to 43ml/min with various tubing. Easy to operate, user can use BCD dial switch to adjust speed manually or use 4-20mA external control module to a adjust speed.</p>	<p>Acceptable pump head: JV15-24 Suitable tubing: 13#, 14#, 19#, 16# External control: Start/stop, direction control, speed control (4-20mA corresponding to 0.1-100rpm) Manual control: BCD dial switch to adjust speed 5 to 100 rpm.</p>	<p>Manual control speed range: 5-100rpm External control speed range: 0.1-100rpm, speed precision is 0.1rpm. Power supply: DC11.4-25.2V Power consumption: ≤10W Dimensions (LxWxH): 134x82x90 mm Weight: 0.86kg</p>

Tubing selection factors:

● Chemical Compatibility –

When transfer different fluids, the tubing should have good chemical characteristics, which is chemical compatibility. Such as: low absorption, good temperature resistance, not easy to aging, not swelling, anti-corrosion, fewer extractable. Chemical resistance decreases as temperature increases. Chemicals that have no effect on the tubing at room temperature could attack the tubing at elevated temperatures.

Chemical compatibility test method:

When the chemical compatibility of the tubing is uncertain, an immersion test is needed.

In an immersion test, a small piece of tubing is weighed, and its diameter and length are measured. The tubing then is immersed in a closed vessel with the chemical in question for a minimum of 48 hours. Afterward, the test piece of tubing is rinsed, dried, weighed and measured, and any changes are recorded. The tubing also should be examined for signs of softening or embrittlements, which indicate the chemical has attacked the tubing.

● Pressure –

Peristaltic pump applications typically have been limited by the pressure capabilities of the tubing. If the pressure is too high, the tubing could swell, resulting in an improper fit through the pump head, which causes excessive wear and tubing failure. The factors which affect the pressure are material, the proportion of diameter and wall thickness, etc.

● Temperature –

The working temperature range of a tubing material is another important consideration. Different materials have different temperature range.

● Dimension –

The size of the tubing has a direct effect on the amount of fluid delivered. Well-designed pumps are engineered to work with an optimum tubing size or range of tubing sizes, taking into account the tubing's inner diameter and wall thickness. The inner diameter determines the amount of fluid delivered with each turn of the rotor. The wall thickness affects the tubing's ability to spring back to its original shape

Features of peristaltic pump tubing:

- Good flexibility. Spring back after pressed radially
- Good wear abrasion resistance
- A certain extent pressure bearing capabilities
- Lower gas permeability
- Low absorption, good temperature resistance, not easy to aging, not swelling, anti-corrosion, fewer extractable.

Tubing parameters:

Inner diameter and wall thickness are the main parameters of the tubing. Different manufacturers have different notations. Such as: specification codes or inner diameter x wall thickness.

Tubing materials:

Silicon rubber, rubber, plastic, synthetic material, etc. Different materials have different characteristics and different applications.

after each compression, which has a great influence on the overall life of the tubing.

● Dimension –

The size of the tubing has a direct effect on the amount of fluid delivered. Well-designed pumps are engineered to work with an optimum tubing size or range of tubing sizes, taking into account the tubing's inner diameter and wall thickness. The inner diameter determines the amount of fluid delivered with each turn of the rotor. The wall thickness affects the tubing's ability to spring back to its original shape after each compression, which has a great influence on the overall life of the tubing.

● Tubing Flex Life –

Different tubing materials have differing abilities to withstand the repeated squeezing action of the rollers. In general, each tubing size, tubing material, pump head style, and operating speed in combination has its own life characteristics. Service life, or flex life in the pump, is the primary concern in a new application. Pump performance is very consistent in a specific application. Maximize the life of a pump system by selecting a tubing material that offers long flex life, using thicker wall tubing, and/or by operating a larger pump at slower speed.

Tubing Types which MRC Company Can Provide:












Domestic silicone tubing – Platinum-cured silicone tubing: Ultra-smooth inner liner with extremely low leachables, good flexibility, translucent and wide temperature range of -60 to 238°C.

Imported tubing – Tygon®, PharMed®BPT, Viton®, Fluran®, Norprene®, etc.












Note:

- Specific types of above tubing refer to "Peristaltic Pump Configuration Table".
- Please contact Loner Company to know all the specification of above tubing.







Tubing Specifications:
Micro & small flow tubing

Tubing Sizes		0.13x0.86	0.5x0.86	0.86x0.86	1.52x0.86	2.06x0.86	2.4x0.86	2.79x0.86	3.17x0.86	1x1	2x1	3x1
Tubing cross sections (1:1)												
Wall thickness(mm)		0.86								1.0		
Inner diameter(mm)		0.13	0.5	0.86	1.52	2.06	2.4	2.79	3.17	1.0	2.0	3.0
Max. pressure (Mpa)	Continuous	0.1										
	Intermittent	0.1										

Medium flow tubing

Tubing Sizes		13#	14#	19#	16#	25#	17#	18#	15#	24#	35#	36#	
Tubing cross sections (1:1)													
Wall thickness of domestic tubing(mm)		1.6						2.4					
Inner diameter of imported tubing(inch)		1/16"						3/32"					
Inner diameter of domestic tubing(mm)		0.8	1.6	2.4	3.1	4.8	6.4	7.9	4.8	6.4	7.9	9.6	
Inner diameter of imported tubing(inch)		1/32"	1/16"	3/32"	1/8"	3/16"	1/4"	5/16"	3/16"	1/4"	5/16"	3/8"	
Max. pressure (Mpa)	Continuous	0.17			0.14	0.10	0.07	0.17			0.14		
	Intermittent	0.27			0.24	0.14	0.10	0.27			0.24		

Industrial tubing

Tubing Sizes		73#	82#	86#	90#	88#	92#
Tubing cross sections (1:1)							
Wall thickness of domestic tubing(mm)		3.3		6.3			4.8
Wall thickness of imported tubing(inch)		1/8"		1/4"			3/16"
Inner diameter of domestic tubing(mm)		9.6	12.7	9.6	19	12.6	25.4
Inner diameter of imported tubing(inch)		3/8"	1/2"	3/8"	3/4"	1/2"	1"
Max. pressure (Mpa)	Continuous	0.17	0.07	0.14			
	Intermittent	0.27	0.14	0.14			

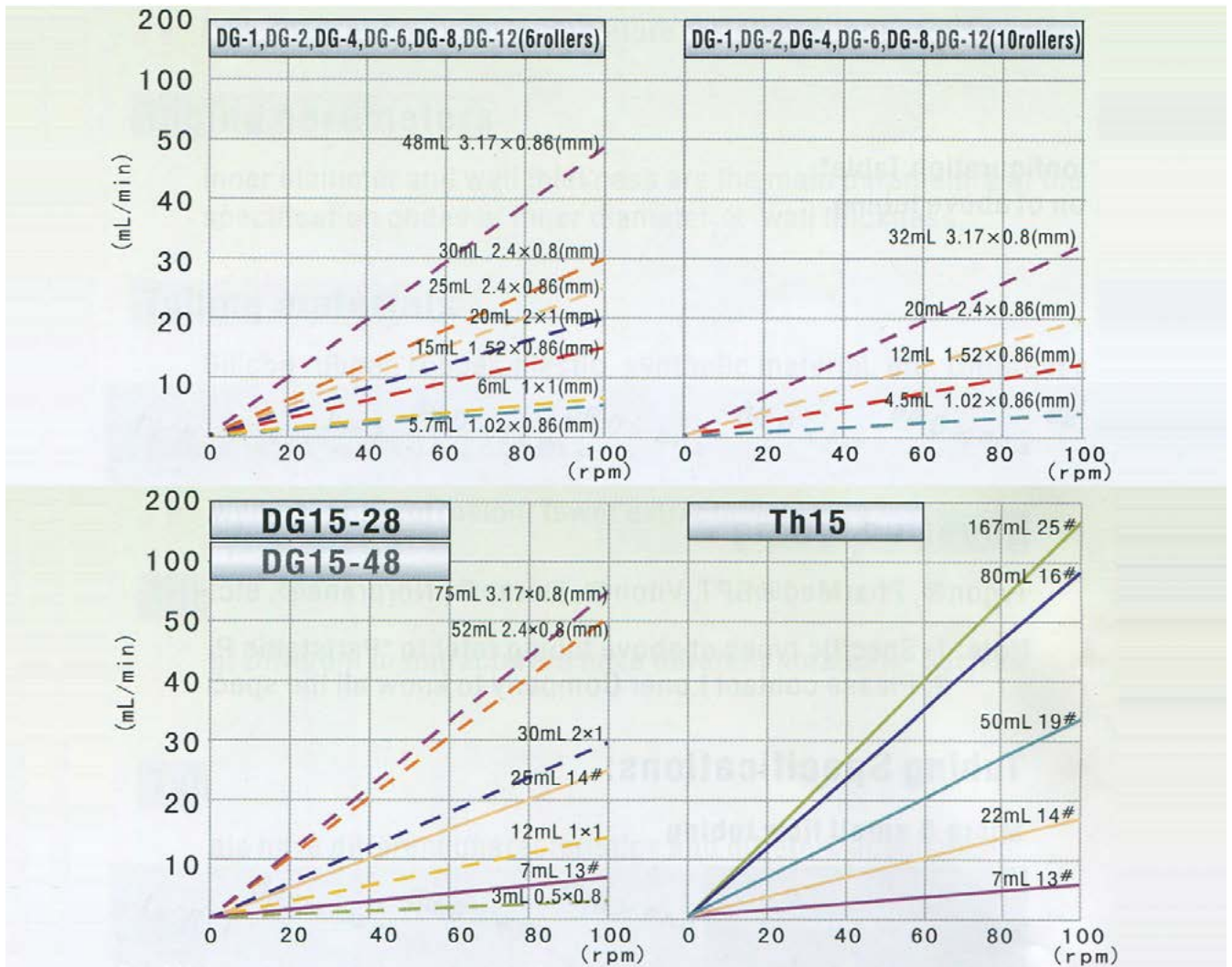
Pumps Tubing:

Model	Inner Dia. (mm)	Wall Thickness (mm)	Suitable Pump Head	Specifications	Standard Package
Tube-S-13#	0.8	1.6	YZ1515X YZII15 TH15 DG15-28(48)	Silicon Tubing	15M
Tube-S-14#	1.6	1.6	YZ1515X YZII15 TH15 DG15-28(48)	Silicon Tubing	15M
Tube-S-19#	2.4	1.6	YZ1515X YZII15 TH15	Silicon Tubing	15M
Tube-S-16#	3.1	1.6	YZ1515X YZII15 DG15-24 TH15	Silicon Tubing	15M
Tube-S-25#	4.8	1.6	YZ1515X YZII15 DG15-24 TH15	Silicon Tubing	15M
Tube-S-17#	6.4	1.6	YZ1515X YZII15 DG15-24	Silicon Tubing	15M
Tube-S-18#	7.9	1.6	YZ1515X YZII15	Silicon Tubing	15M
Tube-S-15#	4.8	2.5	YZ2515X YZII25 KZ25	Silicon Tubing	15M
Tube-S-24#	6.4	2.5	YZ2515X YZII25 BZ25 KZ25	Silicon Tubing	15M
Tube-S-35#	7.9	2.5	KZ25 YZII25	Silicon Tubing	15M
Tube-S-36#	9.6	2.5	KZ25 YZII25	Silicon Tubing	15M
Tube-S-73#	9.5	3.3	YZ35 YZ35-13	Silicon Tubing	15M
Tube-S-82#	12.7	3.3	YZ35 YZ35-13	Silicon Tubing	15M
Tube-S-86#	9.5	6.3	KZ48/63	Silicon Tubing	15M
Tube-S-88#	12.7	4.7	KZ48/63	Silicon Tubing	15M
Tube-S-90#	19	6.35	KZ48/63	Silicon Tubing	15M
Tube-S-92#	25.4	4.76	KZ48/63	Silicon Tubing	15M
Tube-S-0.5×0.8	0.5	0.8	DG JY10 WX10 DG15-28(48)	Silicon Tubing	15M
Tube-S-1×1	1	1	DG JY10 WX10 DG15-28(48)	Silicon Tubing	15M
Tube-S-2×1	2	1	DG JY10 WX10 DG15-28(48)	Silicon Tubing	15M
Tube-S-2.4×0.8	2.4	0.8	DG JY10 WX10 DG15-28(48)	Silicon Tubing	15M
Tube-S-3×1	3	1	DG JY10 WX10 DG15-28(48)	Silicon Tubing	15M
Tube-S-1×1sss	1	1	DG JY10 WX10 DG15-28(48)	Silicon Tubing	12pc
Tube-S-2×1sss	2	1	DG JY10 WX10 DG15-28(48)	Silicon Tubing	12pc
Tube-S-2.4×0.8sss	2.4	0.8	DG JY10 WX10 DG15-28(48)	Silicon Tubing	12pc
Tube-NA-14#	1.6	1.6	YZ1515X YZII15 TH15 DG15-28 (48)	Norprene®A-60-G	15M
Tube-NA-16#	3.1	1.6	YZ1515X YZII15 TH15 DG15-28 (48)	Norprene®A-60-G	15M
Tube-NA-73#	9.5	3.3	YZ35 YZ35-13	Norprene®A-60-G	15M
Tube-NA-16#	3.1	1.6	YZ1515X YZII15 TH15 DG15-28 (48)	Norprene®A-60-G	15M
Tube-NC-16#	3.1	1.6	YZ1515X YZII15 DG15-24 TH15	Norprene®CHEMICAL	15M
Tube-NC-25#	4.8	1.6	YZ1515X YZII15 DG15-24 TH15	Norprene®CHEMICAL	15M
Tube-NC-17#	6.4	1.6	YZ1515X YZII15 DG15-24	Norprene®CHEMICAL	15M
Tube-NC-82#	12.7	3.3	YZ35 YZ35-13	Norprene®CHEMICAL	15M
Tube-TF4-14#	1.6	1.6	YZ1515X YZII15 TH15 DG15-28 (48)	Tygon®F-4040-A	15M
Tube-TF4-16#	3.1	1.6	YZ1515X YZII15 DG15-24 TH15	Tygon®F-4040-A	15M
Tube-TF4-25#	4.8	1.6	YZ1515X YZII15 DG15-24 TH15	Tygon®F-4040-A	15M
Tube-TF4-17#	6.4	1.6	YZ1515X YZII15 DG15-24	Tygon®F-4040-A	15M
Tube-TF4-18#	7.9	1.6	YZ1515X YZII15	Tygon®F-4040-A	15M
Tube-TF4-0.76×0.86	0.76	0.86	DG JY10 WX10 DG15-28(48)	Tygon®F-4040-A	3M
Tube-TF4-1.65×0.86	1.65	0.86	DG JY10 WX10 DG15-28(48)	Tygon®F-4040-A	3M
Tube-TF4-2.06×0.86	2.06	0.86	DG JY10 WX10 DG15-28(48)	Tygon®F-4040-A	15M
Tube-TF4sss-2.06×0.86	2.06	0.86	DG JY10 WX10 DG15-28(48)	Tygon®F-4040-A	12pc
Tube-TF5-14#	1.6	1.6	YZ1515X YZII15 TH15 DG15-28 (48)	Fluran®F-5500-A	15M
Tube-TF5-16#	3.1	1.6	YZ1515X YZII15 DG15-24 TH15	Fluran®F-5500-A	15M
Tube-TF5-25#	4.8	1.6	YZ1515X YZII15 DG15-24 TH15	Fluran®F-5500-A	15M
Tube-TF5-17#	6.4	1.6	YZ1515X YZII15 DG15-24	Fluran®F-5500-A	15M
Tube-TF5-18#	7.9	1.6	YZ1515X YZII15	Fluran®F-5500-A	15M
Tube-TF5-1.6×0.8	1.6	0.8	DG JY10 WX10 DG15-28(48)	Fluran®F-5500-A	15M
Tube-TF5-2.06×0.86	2.06	0.86	DG JY10 WX10 DG15-28(48)	Fluran®F-5500-A	10M

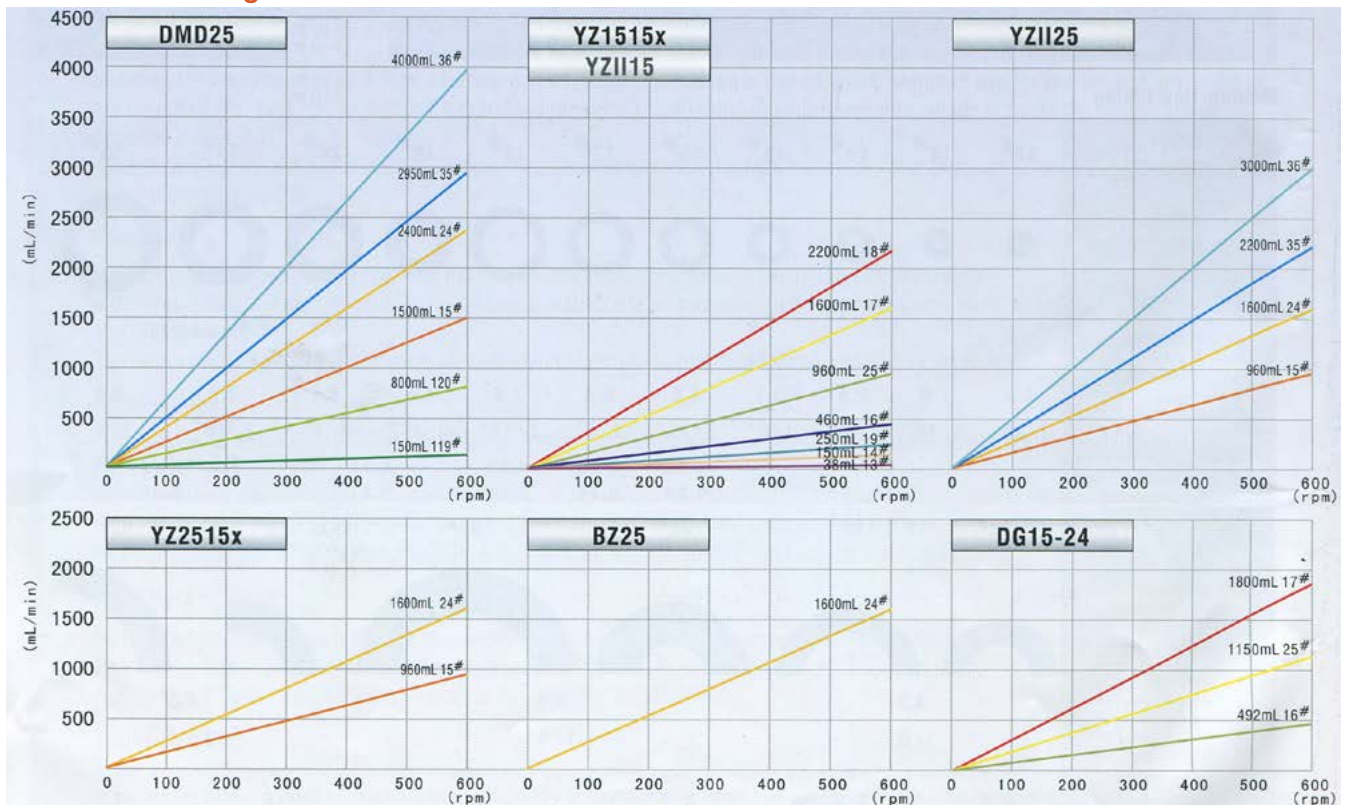
Model	Inner Dia. (mm)	Wall Thickness (mm)	Suitable Pump Head	Specifications	Standard Package
Tube-V-1.6×0.8	1.6	0.8	DG JY10 WX10 DG15-28(48)	viton	7.6M
Tube-V-2×1	2	1	DG JY10 WX10 DG15-28(48)	viton	5M
Tube-V-13#	0.8	1.6	YZ1515X YZII15 TH15 DG15-28(48)	viton	7.6M
Tube-V-14#	1.6	1.6	YZ1515X YZII15 TH15 DG15-28(48)	viton	7.6M
Tube-V-16#	3.1	1.6	YZ1515X YZII15 DG15-24 TH15	viton	7.6M
Tube-V-25#	4.8	1.6	YZ1515X YZII15 DG15-24 TH15	viton	7.6M
Tube-V-17#	6.4	1.6	YZ1515X YZII15 DG15-24	viton	7.6M
Tube-V-18#	7.9	1.6	YZ1515X YZII15	viton	7.6M
Tube-V-15#	4.8	2.5	YZ2515X YZII25 KZ25	viton	7.6M
Tube-V-24#	6.4	2.5	YZ2515X YZII25 BZ25 KZ25	viton	7.6M
Tube-V-35#	7.9	2.5	KZ25 YZII25	viton	7.6M
Tube-V-36#	9.6	2.5	KZ25 YZII25	viton	7.6M
Tube-V-73#	9.5	3.3	KZ35 YZ35 YZ35-13	viton	7.6M
Tube-P-13#	0.8	1.6	YZ1515X YZII15 TH15 DG15-28(48)	Pharmed®	7.6M
Tube-P-14#	1.6	1.6	YZ1515X YZII15 TH15 DG15-28(48)	Pharmed®	7.6M
Tube-P-16#	3.1	1.6	YZ1515X YZII15 DG15-24 TH15	Pharmed®	7.6M
Tube-P-19#	2.4	1.6	YZ1515X YZII15 TH15	Pharmed®	7.6M
Tube-P-25#	4.8	1.6	YZ1515X YZII15 DG15-24 TH15	Pharmed®	7.6M
Tube-P-17#	6.4	1.6	YZ1515X YZII15 DG15-24	Pharmed®	7.6M
Tube-P-18#	7.9	1.6	YZ1515X YZII15	Pharmed®	7.6M
Tube-P-15#	4.8	2.4	YZ2515X YZII25 KZ25 DMD25	Pharmed®	7.6M
Tube-P-24#	6.4	2.4	YZ2515X YZII25 BZ25 KZ25 DMD25	Pharmed®	7.6M
Tube-P-35#	7.9	2.5	KZ25 YZII25 DMD25	Pharmed®	7.6M
Tube-P-36#	9.6	2.5	KZ25 YZII25 DMD25	Pharmed®	7.6M
Tube-P-73#	9.5	3.3	KZ35 YZ35 YZ35-13	Pharmed®	7.6M
Tube-P-82#	12.7	3.3	KZ35 YZ35 YZ35-13	Pharmed®	7.6M
Tube-P-86#	9.5	6.3	KZ48/63	Pharmed®	7.6M
Tube-P-88#	12.7	4.7	KZ48/63	Pharmed®	7.6M
Tube-P-90#	19	6.35	KZ48/63	Pharmed®	7.6M
Tube-P-92#	25.4	4.76	KZ48/63	Pharmed®	7.6M
Tube-P-0.38×0.86	0.38	0.86	DG	Pharmed®	3M
Tube-P-0.51×1.6	0.51	1.6	YZ1515X YZII15	Pharmed®	7.6M
Tube-P-0.76×0.86	0.76	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®	3M
Tube-P-1.02×0.86	1.02	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®	3M
Tube-P-1.6×0.8	1.6	0.8	DG JY10 WX10 DG15-28(48)	Pharmed®	3M
Tube-P-1.65×0.86	1.65	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®	3M
Tube-P-2.06×0.86	2.06	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®	3M
Tube-P-2.79×0.86	2.79	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®	3M
Tube-Psss-0.38×0.9	0.38	0.9	DG JY10 WX10 DG15-28(48)	Pharmed®sss	6pc
Tube-Psss-0.76×0.86	0.76	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®sss	6pc
Tube-Psss-1.02×0.86	1.02	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®sss	6pc
Tube-Psss-1.52×0.86	1.52	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®sss	6pc
Tube-Psss-1.65×0.86	1.65	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®sss	6pc
Tube-Psss-2.06×0.86	2.06	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®sss	6pc
Tube-Psss-2.54×0.86	2.54	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®sss	6pc
Tube-Psss-2.79×0.86	2.79	0.86	DG JY10 WX10 DG15-28(48)	Pharmed®sss	6pc

Model	Inner Dia. (mm)	Wall Thickness (mm)	Suitable Pump Head	Specifications	Standard Package
Tube-TR3-13#	0.8	1.6	YZ1515X YZII15 TH15 DG15-28(48)	Tygon®R-3603	15M
Tube-TR3-14#	1.6	1.6	YZ1515X YZII15 TH15 DG15-28(48)	Tygon®R-3603	15M
Tube-TR3-16#	3.1	1.6	YZ1515X YZII15 TH15 DG15-28(48)	Tygon®R-3603	15M
Tube-TR3-25#	4.8	1.6	YZ1515X YZII15 TH15 DG15-28(48)	Tygon®R-3603	15M
Tube-TR3-17#	6.4	1.6	YZ1515X YZII15 DG15-24	Tygon®R-3603	15M
Tube-TR3-18#	7.9	1.6	YZ1515X YZII15	Tygon®R-3603	15M
Tube-TR3-15#	4.8	2.5	YZ2515X YZII25 KZ25	Tygon®R-3603	15M
Tube-TR3-24#	6.4	2.5	YZ2515X YZII25 BZ25 KZ25	Tygon®R-3603	15M
Tube-TR3-0.76×0.86	0.76	0.86	DG JY10 WX10 DG15-28(48)	Tygon®R-3603	10M
Tube-TR3-1.6×0.8	1.6	0.8	DG JY10 WX10 DG15-28(48)	Tygon®R-3603	10M
Tube-TR3-2.4×0.8	2.4	0.8	DG JY10 WX10 DG15-28(48)	Tygon®R-3603	10M
Tube-TR3ss-0.13×0.9	0.13	0.9	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3ss-0.25×0.9	0.25	0.9	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3ss-0.51×0.9	0.51	0.9	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3ss-0.76×0.9	0.76	0.9	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3ss-1.52×0.86	1.52	0.86	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3ss-1.65×0.86	1.65	0.86	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3ss-1.85×0.86	1.85	0.86	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3sss-0.76×0.9	0.76	0.86	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3sss-1.52×0.86	2.54	0.86	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3sss-1.85×0.86	1.85	0.86	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-TR3sss-2.06×0.86	2.06	0.86	DG JY10 WX10 DG15-28(48)	Tygon®R-3607ss	12pc
Tube-T3-19#	2.4	1.6	YZ1515X YZII15 DG15-24 TH15	Tygon®3350	15M
Tube-T3-16#	3.1	1.6	YZ1515X YZII15 DG15-24 TH15	Tygon®3350	15M
Tube-T3-25#	4.8	1.6	YZ1515X YZII15 DG15-24 TH15	Tygon®3350	15M
Tube-T3-18#	7.9	1.6	YZ1515X YZII15	Tygon®3350	15M
Tube-T3-15#	4.8	2.5	YZ2515X YZII25 KZ25	Tygon®3350	15M
Tube-T3-24#	6.4	2.5	YZ2515X YZII25 BZ25 KZ25	Tygon®3350	15M
Tube-T2-16#	3.1	1.6	YZ1515X YZII15 DG15-24 TH15	Tygon®2275	15M
Tube-T2-25#	4.8	1.6	YZ1515X YZII15 DG15-24 TH15	Tygon®2275	15M
Tube-T2-17#	6.4	1.6	YZ1515X YZII15 DG15-24	Tygon®2275	15M
Tube-T2-82#	12.7	3.3	KZ35 YZ35 YZ35-13	Tygon®2275	15M
Tube-DM-24#	6.4	2.5	YZ2515X YZII25 BZ25 KZ25 DMD25	Double Marprene	5pc
Tube-MHLLss-2.79×0.86	2.79	0.86	DG JY10 WX10 DG15-28(48)	MHLLss	6pc

Micro & Small Flow Tubing:

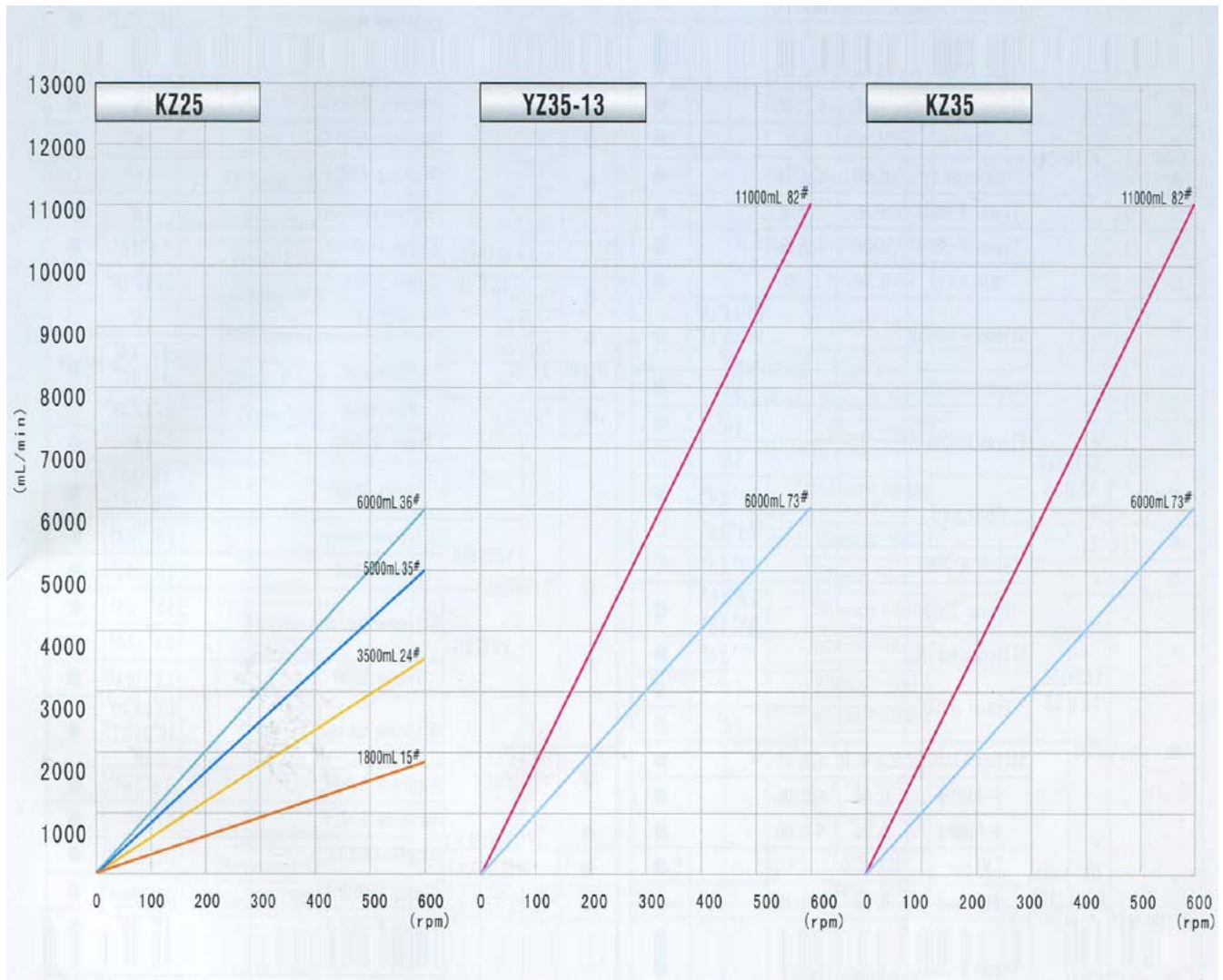


Medium Flow Tubing:

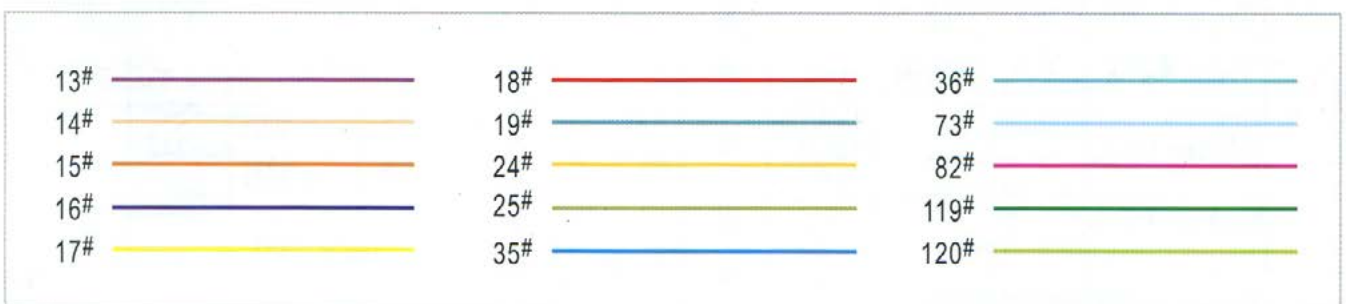
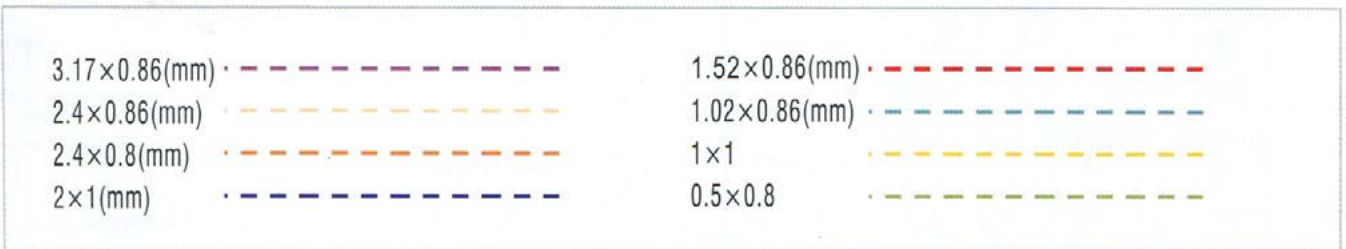


PERISTALTIC PUMPS Tubing Ref. Flow Rates Curve

Industrial Tubing:



Note: Different colorful lines represent different type of tubing



PERISTALTIC PUMPS

Drive	Pump Head	Tubing						
		Type	Wall Thickness (mm)	ID (mm)	Tubing Number	Remark		
PP-X-20	YZ1014	Silicone tubing	0.8-1.0	≤3.17		•		
		Tygon F-4040-A	0.86	≤2.06		•		
		Fluran F-5500-A	0.86	≤2.06		•		
		Viton	1.0	≤2		•		
		Pharmed	0.86	≤2.79		•		
		Tygon R-3603	0.8	≤2.4		•		
		Tygon R-3607	0.86	≤2.06		•		
	MHLLSs	0.86	≤2.79		•			
PP-X-380	YZ1515x YZ1115	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•		
		Norprene A-60-G			14#	•		
		Fluran F-5500-A			14#	•		
		Pharmed			16#	○		
		Tygon R-3603			13# 14#	•		
		Tygon 3350			19# 16# 25# 18#	○		
	YZ2515x YZ1125	Silicone tubing			15# 24#	•		
		Tygon 3350			15# 24#	• ○		
	DG-1 (6) DG-1 (10)	Silicone tubing	0.8-1.0	≤3.17		•		
		F-4040-A	0.86	≤2.06		•		
		F-5500-A	0.86	≤2.06		•		
		Viton	0.8-1.0	≤2		•		
		Pharmed	0.86	≤2.79		•		
		Tygon R-3603	0.8	≤2.4		•		
		Tygon R-3607	0.9	≤2.06		•		
		MHLLSs	0.86	≤2.79		•		
	DG-2 (6)	Silicone tubing	0.8-1.0	≤3.17		•		
		F-4040-A	0.86	≤2.06		○		
		F-5500-A	0.86	≤2.06		•		
		Viton	0.8-1.0	≤2		•		
		Pharmed	0.86	≤2.79		•		
		Tygon R-3603	0.8	≤2.4		•		
	DG-2 (10)	Silicone tubing	0.8-1.0	≤3.17		•		
		F-5500-A	0.86	≤2.06		•		
Viton		0.8-1.0	≤2		•			
Pharmed		0.86	≤2.79		•			
Tygon R-3603		0.8	≤2.4		•			
Tygon R-3607		0.9	≤2.06		•			
PP-X-2200	YZ1515x YZ1115	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•		
		Norprene A-60-G			14#	•		
		Fluran F-5500-A			14#	•		
		Pharmed			16#	○		
		Pharmed			13# 14#	•		
		Tygon R-3603			19# 16#	○		
	YZ2515x YZ1125	Tygon 3350			13# 14# 19# 16# 25# 18#	•		
		Silicone tubing			15# 24#	•		
		Tygon 3350			15#	•		
		Tygon 3350			24#	○		
		PP-X-1600	Silicone tubing				13# 14# 19# 16# 25# 17# 18#	•

Drive	Pump Head	Tubing					
		Type	Wall Thickness (mm)	ID (mm)	Tubing Number	Remark	
PP-X-1600	YZ1515x YZ1115	Norprene A-60-G			14#	•	
		Norprene A-60-G			16#	○	
		Norprene A-60-F			16#	○	
		Norprene CHEMICAL			16#	•	
		Fluran F-5500-A			14# 16#	•	
		Fluran F-5500-A			25# 17# 18#	○	
		Viton			16#	○	
		Pharmed			13# 14# 19# 16#	•	
		Pharmed			25# 17# 18#	○	
		Tygon R-3603			14#	•	
	Tygon 3350			19# 16# 25# 18#	•		
	YZ2515x	Silicone tubing			15# 24#	•	
		Tygon 3350			15# 24#	•	
		YZ1125	Silicone tubing			15# 24#	•
			Tygon 3350			35# 36#	○
	PP-X-6000	YZ1515x X1 YZ1115 X1	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•
			Norprene A-60-G			14# 16#	•
			Norprene A-60-F			16#	•
Norprene CHEMICAL					16# 25# 17#	•	
YZ1515x X2 YZ1115 X2		Fluran F-4040-A			14# 16# 25# 17# 18#	• •	
		Fluran F-5000-A				•	
		Viton			13# 14# 19# 16# 25# 17# 18#	•	
		Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•	
		Norprene A-60-G			14# 16#	•	
		Norprene A-60-F			16#	•	
PP-X-2200	YZ1515x X2 YZ1115 X2	Norprene CHEMICAL			16#	•	
		Norprene CHEMICAL			25#	○	
		Fluran F-4040-A			14#	•	
		Fluran F-4040-A			16#	○	
		Fluran F-5500-A			14# 16# 25# 17# 18#	•	
		Viton			13# 14# 16#	•	
	YZ2515x X1	Viton			25# 17# 18#	○	
		Pharmed			13# 14# 19# 16# 25# 17# 18#	•	
		Tygon R-3603			13# 14# 16#	•	
		Tygon R-3603			25# 17# 18#	○	
		Tygon 3350			19# 16# 25# 18#	•	
		Tygon 2275			16# 25# 17#	○	
		Silicone tubing			15# 24#	•	
		Pharmed			15# 24#	•	
YZ1125 X1	Tygon R-3603			15# 24#	•		
	Tygon 3350			15# 24#	•		
	Silicone tubing			15# 24#	•		
	Pharmed			35# 36#	•		
	Tygon R-3603			15# 24#	•		
	Tygon 3350			15# 24#	•		
YZ2515x X2	Silicone tubing			15# 24#	•		
	Pharmed			15# 24#	○		
	Tygon R-3603			15# 24#	○		
	Tygon 3350			15# 24#	•		
	Tygon 3350			15# 24#	•		
	Tygon 3350			15# 24#	•		
YZ1125 X2	Silicone tubing			15# 24# 35# 36#	•		
	Pharmed			15# 24#	○		
	Tygon R-3603			15# 24#	○		
	Tygon 3350			15# 24#	•		

PERISTALTIC PUMPS

Configuration Table

Drive	Pump Head	Tubing					
		Type	Wall Thickness (mm)	ID (mm)	Tubing Number	Remark	
PP-X-6000	KZ25	Silicone tubing			15# 24# 35# 36#	•	
		Tygon R-3603			15# 24#	•	
		Tygon 3350			15# 24#	•	
		Tygon 2275			15# 24#	•	
	DG15-24	Silicone tubing			16# 25# 17#	•	
		Norprene CHEMICAL					
		Fluran F-4040-A					
		Fluran F-5500-A					
		Viton					
		Pharmed					
		Tygon R-3603					
		Tygon 3350					
	PP-W-6000	YZ1515x X1 YZ115 X1	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•
			Norprene A-60-G			14# 16#	•
Norprene A-60-F					16#	•	
Norprene CHEMICAL					16# 25# 17#	•	
Fluran F-4040-A					13# 14# 19# 16# 25# 17# 18#	•	
Fluran F-5500-A							
Viton							
Pharmed							
Tygon R-3603						•	
Tygon 3350					19# 16# 25# 18#	•	
Tygon 2275				16# 25# 17#	•		
YZ1515x X2 YZ115 X2		Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•	
		Norprene A-60-G			14# 16#	•	
		Norprene A-60-F			16#	•	
	Norprene CHEMICAL			16#	•		
	Fluran F-4040-A			25#	○		
	Fluran F-4040-A			14#	•		
	Fluran F-4040-A			16#	○		
	Fluran F-5500-A			14# 16# 25# 17# 18#	•		
	Viton			13# 14# 16#	•		
	Viton			25# 17# 18#	○		
	Pharmed			13# 14# 19# 16# 25# 17# 18#	•		
	Tygon R-3603			13# 14# 16#	•		
	Tygon R-3603			25# 17# 18#	○		
	Tygon 3350			19# 16# 25# 18#	•		
Tygon 2275			16# 25# 17#	○			
YZ2515x X1	Silicone tubing			15# 24#	•		
	Pharmed			15# 24#	•		
	Tygon R-3603			15# 24#	•		
	Tygon 3350			15# 24#	•		
	Tygon 2275			15# 24#	•		

Drive	Pump Head	Tubing					
		Type	Wall Thickness (mm)	ID (mm)	Tubing Number	Remark	
PP-W-6000	YZ1125 X1	Silicone tubing			15# 24# 35# 36#	•	
		Pharmed			15# 24#	•	
		Tygon R-3603			15# 24#	•	
		Tygon 3350			15# 24#	•	
	YZ2515x X2 YZ1125 X2	Silicone tubing			15# 24#	•	
		Pharmed			15# 24#	○	
		Tygon R-3603			15# 24#	○	
		Tygon 3350			15# 24#	•	
	YZ2515x X2 YZ1125 X2	Silicone tubing			15# 24# 35# 36#	•	
		Pharmed			15# 24#	○	
		Tygon R-3603			15# 24#	○	
		Tygon 3350			15# 24#	•	
	KZ25	Silicone tubing			15# 24# 35# 36#	•	
		Tygon R-3603			15# 24#	•	
		Tygon 3350			15# 24#	•	
		Tygon 2275			15# 24#	•	
	DG15-24	Silicone tubing			16# 25# 17#	•	
		Norprene CHEMICAL					
		Fluran F-4040-A					
		Fluran F-5500-A					
		Viton					
		Pharmed					
		Tygon R-3603					
		Tygon 3350					
Tygon 2275							
Tygon 2275							
PP-F-500	YZ1515x YZ1115	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•	
		Norprene A-60-G			14#	•	
		Norprene A-60-G			16#	○	
		Norprene A-60-F			16#	○	
		Norprene CHEMICAL			16#	○	
		Fluran F-5500-A			14# 16#	•	
		Fluran F-5500-A			25# 17# 18#	○	
		Viton			16#	○	
		Pharmed			13# 14# 19# 16#	•	
		Pharmed			25# 17# 18#	○	
		Tygon R-3603			14#	•	
		Tygon 3350			19# 16# 25# 18#	•	
		YZ2515x	Silicone tubing			15# 24#	•
			Tygon 3350			15# 24#	•
	Silicone tubing				15# 24#	•	
	Tygon 3350				15# 24#	•	
	YZ1125	Silicone tubing			35# 36#	○	
		Tygon 3350			15# 24#	•	
		Silicone tubing			15# 24#	•	
		Tygon 3350			15# 24#	•	
	DG-1 (6) DG-1 (10)	Silicone tubing	0.8-1.0	≤3.17		•	
		F-4040-A	0.86	≤2.06		•	
		F-5500-A	0.86	≤2.06		•	
		Viton	0.8-1.0	≤2		•	
Pharmed		0.86	2.79		•		
Tygon R-3603		0.8	≤2.4		•		
Tygon R-3607		0.9	≤2.06		•		
MHLLs		0.86	2.79		•		
Silicone tubing		0.8-1.0	≤3.17		•		
F-4040-A		0.86	≤2.06		○		
DG-2 (6)	F-5500-A	0.86	≤2.06		•		
	Viton	0.8-1.0	≤2		•		
	Pharmed	0.86	2.79		•		
	Tygon R-3603	0.8	≤2.4		•		
	Tygon R-3607	0.9	≤2.06		•		
	Tygon R-3607	0.9	≤2.06		•		

Configuration Table

PERISTALTIC PUMPS

Drive	Pump Head	Tubing					
		Type	Wall Thickness (mm)	ID (mm)	Tubing Number	Remark	
PP-F-500	DG-2 (10)	Silicone tubing	0.8-1.0	≤3.17		●	
		F-4040-A	0.86	≤2.06		○	
		F-5500-A	0.86	≤2.06		●	
		Viton	0.8-1.0	≤2		●	
		Pharmed	0.86	2.79		●	
		Tygon R-3603	0.8	2.79		●	
	Tygon R-3607	0.9	≤2.06		●		
	DG-4 (6)	Silicone tubing	0.8-1.0	≤3.17		●	
		F-5500-A	0.86	≤2.06		●	
		Pharmed	0.86	≤2.06		●	
		Pharmed	0.86	2.79		○	
		Tygon R-3603	0.8	≤1.6		●	
		Tygon R-3603	0.8	2.4		○	
	Tygon R-3607	0.9	≤2.06		●		
	DG-4 (10)	Silicone tubing	0.8-1.0	≤3.17		●	
		Pharmed	0.86	≤2.06		●	
		Pharmed	0.86	2.79		○	
		Tygon R-3603	0.8	≤1.6		●	
		Tygon R-3603	0.8	2.4		○	
		Tygon R-3607	0.9	≤2.06		●	
	PP-F-1140	YZ1515x YZ115	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	●
Norprene A-60-G					14#	●	
Fluran F-5500-A					14#	●	
Fluran F-5500-A					16#	○	
Pharmed					13# 14#	●	
Pharmed					19# 16#	○	
Tygon R-3603					13# 14#	○	
Tygon 3350				19# 16# 25# 18#	●		
YZ2515x YZ1125		Silicone tubing			15# 24#	●	
		Tygon 3350			15#	●	
		Tygon 3350			24#	○	
		PP-F-6000	YZ1515x X1 YZ115 X1	Silicone tubing			13# 14# 19# 16# 25# 17# 18#
	Norprene A-60-G					14# 16#	●
Norprene A-60-F					16#	●	
Norprene CHEMICAL					16# 25#	●	
Fluran F-4040-A					14# 16# 25# 17# 18#	●	
Fluran F-5500-A					14# 16# 25# 17# 18#	●	
Viton					13# 14# 16# 25# 17# 18#	●	
Pharmed					13# 14# 19# 16# 25# 17# 18#	●	
Tygon R-3603					13# 14# 16# 25# 17# 18#	●	
Tygon 3350					19# 16# 25# 18#	●	
Tygon 2275					16# 25# 18#	●	
YZ1515x X2 YZ115 X2	Silicone tubing				13# 14# 19# 16# 25# 17# 18#	●	
	Norprene A-60-G			14#	●		
	Fluran F-5500-A			14#	●		
	Fluran F-5500-A			16# 25#	○		
	Pharmed			13# 14#	●		
	Pharmed			19# 16#	○		
	Tygon R-3603			13# 14#	○		
	Tygon 3350			19# 16# 25# 18#	●		
	PP-L-500	YZ1515x X1 YZ115x X1	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	●
			Norprene A-60-G			14# 16#	●
			Norprene A-60-F			16#	●
Norprene CHEMICAL					16# 25# 17#	○	
Fluran F-4040-A					14# 16# 25# 17# 18#	●	
Fluran F-5500-A					14# 16# 25# 17# 18#	●	
Viton					13# 14# 16# 25# 17# 18#	●	
Pharmed					13# 14# 19# 16# 25# 17# 18#	●	
Tygon 3350					19# 16# 25# 18#	●	
Tygon 2275					16# 25# 17#	●	
YZ1515x X2 YZ115x X2			Silicone tubing			13# 14# 19# 16# 25# 17# 18#	●
		Norprene A-60-G			14# 16#	●	
	Norprene A-60-F			16#	●		
	Norprene CHEMICAL			16# 25# 17#	○		
	Fluran F-4040-A			14# 16# 25# 17# 18#	●		
	Fluran F-5500-A			14# 16# 25# 17# 18#	●		
	Viton			13# 14# 16# 25# 17# 18#	●		
	Pharmed			13# 14# 19# 16# 25# 17# 18#	●		
	Tygon R-3603			13# 14# 16# 25# 17# 18#	●		
	Tygon 3350			19# 16# 25# 18#	●		
	Tygon 2275			16# 25# 17#	●		

Drive	Pump Head	Tubing					
		Type	Wall Thickness (mm)	ID (mm)	Tubing Number	Remark	
PP-F-6000	YZ2515x X1	Silicone tubing			15# 24#	●	
		Pharmed			15# 24#	●	
		Tygon R-3603			15# 24#	●	
		Tygon 3350			15# 24#	●	
		Tygon 3350			15# 24#	●	
	YZ1125x X1	Silicone tubing			15# 24# 35# 36#	●	
		Pharmed			15# 24#	●	
		Tygon R-3603			15# 24#	●	
		Tygon 3350			15# 24#	●	
		Tygon 3350			15# 24#	●	
		Tygon 3350			15# 24#	●	
	YZ2515x X2 YZ1125 X2	Silicone tubing			15# 24#	●	
		Tygon 3350			15# 24#	●	
		Tygon 3350			15# 24#	●	
	KZ25	Silicone tubing			15# 24#	●	
		Silicone tubing			35# 36#	○	
		Pharmed			15# 24#	○	
	PP-F-11L	YZ35-13 KZ35	Silicone tubing			73# 82#	●
			Pharmed			73# 82#	○
		YZ35-13 X2 KZ35 X2	Silicone tubing			73#	●
			Silicone tubing			82#	○
PP-X-11L	YZ35-13 KZ35	Silicone tubing			73# 82#	●	
		Pharmed			73# 82#	○	
	YZ35-13 X2 KZ35 X2	Silicone tubing			73#	●	
		Silicone tubing			82#	○	
PP-L-500	YZ1515x X1 YZ115x X1	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	●	
		Norprene A-60-G			14# 16#	●	
		Norprene A-60-F			16#	●	
		Norprene CHEMICAL			16# 25# 17#	●	
		Fluran F-4040-A			14# 16# 25# 17# 18#	●	
		Fluran F-5500-A			14# 16# 25# 17# 18#	●	
		Viton			13# 14# 16# 25# 17# 18#	●	
		Pharmed			13# 14# 19# 16# 25# 17# 18#	●	
		Tygon 3350			19# 16# 25# 18#	●	
		Tygon 2275			16# 25# 17#	●	
		YZ1515x X2 YZ115x X2	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	●
	Norprene A-60-G				14# 16#	●	
	Norprene A-60-F				16#	●	
	Norprene CHEMICAL				16# 25# 17#	○	
	Fluran F-4040-A				14# 16# 25# 17# 18#	●	
	Fluran F-5500-A				14# 16# 25# 17# 18#	●	
	Viton				13# 14# 16# 25# 17# 18#	●	
	Pharmed				13# 14# 19# 16# 25# 17# 18#	●	
	Tygon R-3603				13# 14# 16# 25# 17# 18#	●	
	Tygon 3350				19# 16# 25# 18#	●	
	Tygon 2275			16# 25# 17#	●		

PERISTALTIC PUMPS

Configuration Table

Drive	Pump Head	Tubing				
		Type	Wall Thickness (mm)	ID (mm)	Tubing Number	Remark
PP-L-500	YZ1515x X3 YZ115 X3	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•
		Norprene A-60-G			14#	•
		Norprene A-60-G			16#	○
		Norprene A-60-F			16#	○
		Norprene CHEMICAL			16#	○
		Fluran F-4040-A			14# 16#	•
		Fluran F-5500-A			25# 17# 36#	○
		Viton			13#	•
		Viton			14#	○
		Pharmed			13# 14# 19# 16#	•
		Tygon R-3603			13# 14#	•
		Tygon 3350			19# 16# 25# 18#	•
	YZ1515x X4 YZ115 X4	Silicone tubing			13# 14# 19# 16# 25# 17# 18#	•
		Norprene A-60-G			14#	•
		Fluran F-5500-A			14# 16#	○
		Viton			13#	•
		Pharmed			13# 14#	•
		Tygon R-3603			13#	•
	YZ2515x X1	Silicone tubing			15# 24#	•
		Pharmed			15# 24#	•
		Tygon R-3603			15# 24#	•
		Tygon 3350			15# 24#	•
	YZ1125 X1	Silicone tubing			15# 24# 35# 36#	•
		Pharmed			15# 24#	•
		Tygon R-3603			15# 24#	•
	YZ2515x X2	Silicone tubing			15# 24#	•
		Pharmed			15# 24#	○
		Tygon R-3603			15# 24#	○
	YZ2515x X3	Silicone tubing			15# 24#	•
		Pharmed			15# 24#	•
		Tygon 3350			15# 24#	•
	YZ2515x X4	Silicone tubing			15# 24#	•
		Pharmed			15# 24#	○
		Tygon 3350			15# 24#	○
	YZ1125x X2	Silicone tubing			15# 24# 35# 36#	•
		Pharmed			15# 24#	○
		Tygon R-3603			15# 24#	○
	YZ2515x X2	Silicone tubing			15# 24#	•
		Pharmed			15# 24#	○
		Tygon 3350			15# 24#	•
	DG15-24	Silicone tubing			16# 25# 17#	•
		Norprene CHEMICAL				•
Fluran F-4040-A					•	
Fluran F-5500-A					•	
Viton					•	
Pharmed					○	
Tygon R-3603					•	
Tygon 3350					○	
Tygon 2275					•	

Drive	Pump Head	Tubing					
		Type	Wall Thickness (mm)	ID (mm)	Tubing Number	Remark	
PP-L-500	DG15-28	Silicone tubing	0.8-1.0	≤3.17	13# 14#	•	
		Norprene A-60-G			14#	•	
		Norprene A-60-G			17#	○	
		Pharmed	0.86	≤2.79	13# 14#	•	
		Tygon R-3603	0.8	≤2.4	13# 14#	•	
		F-4040-A	0.86	≤2.06		•	
		F-5500-A	0.86	≤2.06		•	
		Viton	0.8-1.0	≤2		•	
		Tygon R-3607	0.9	≤2.06		•	
		DG15-48	Silicone tubing	0.8-1.0	≤2	13# 14#	• ○
			F-4040-A	0.86	≤1.65		•
			F-5500-A	0.86	≤1.6		•
	Viton		0.8-1.0	≤2		○	
	Pharmed		0.86	<2.54		•	
	Pharmed		0.86	2.54 2.79		○	
	Tygon R-3603		0.8	≤2.4		•	
	Tygon R-3607		0.9	<2.06		•	
	DG-2/4/ 6/8/12 (6/10 rollers)		Silicone tubing	0.8-1.0	≤3.17		•
			F-4040-A	0.86	≤2.06		•
		F-5500-A	0.86	≤2.06		•	
		Viton	0.8-1.0	≤2		•	
		Pharmed	0.86	≤2.79		•	
		Tygon R-3603	0.8	≤2.4		•	
		Tygon R-3607	0.9	≤2.06		•	
		DG-16 (6)	Silicone tubing	0.8-1.0	≤3.17		•
	F-5500-A		0.86	1.6		•	
	Pharmed		0.86	≤2.06		•	
	Pharmed		0.86	2.54		○	
	Tygon R-3603		0.8	≤0.76		•	
	Tygon R-3603		0.8	≥0.76		○	
	Tygon R-3607		0.9	≤1.85		•	
	Tygon R-3607		0.9	2.06		○	
	DG-16 (10)		Silicone tubing	0.8-1.0	<3		•
			Silicone tubing	1.0	3		○
		F-5500-A	0.86	1.6		○	
		Pharmed	0.86	≤1.65		•	
		Pharmed	0.86	>1.65		○	
		Tygon R-3603	0.8	≥0.76		○	
		Tygon R-3603	0.8	<0.76		•	
		Tygon R-3607	0.9	<1.85		•	
		Tygon R-3607	0.9	≥1.85		○	
		DG-24 (6)	Silicone tubing	0.8-1.0	≤3.17		•
Pharmed			0.86	≤1.65		•	
DG-24 (10)		Silicone tubing	0.8-1.0	<2		•	
	Silicone tubing	0.8-1.0	≥2		○		
PP-F-380	LEAD15-24			16# 25# 17#	•		
	LEAD15-44			16#	•		
	LEAD15-48			13# 14#	•		
	LEAD15-88			13# 14#	• ○		

Note: • Means Good
○ Means Fair

Dispensing Controller

Function and Feature:

Dispensing controller can be equipped with many peristaltic pumps to realize dispensing automatically.



Standard External Control Interface

Applicable Drive Types:

- PP-X-20
- PP-X-380
- PP-X-2200
- PP-X-1600
- PP-F-380
- PP-L-500
- PP-F-500
- PP-F-1140
- PP-X-6000
- PP-F-6000

Five Kinds of Control Modes:

- 149-1-000011 - 0-5V analog input
- 149-1-000010 - 0-10V analog input
- 149-1-000009 - 4-20mA analog input
- 149-1-000012 - 0-10kHz Pulse Input
- 149-1-000008 - Communication control (RS485).

Note: Please see above picture for part numbers

Footswitch



Model	Connector	Applicable Products
149-1-000021	DB-9	Peristaltic Pump
149-1-000022	DB-9	Dispensing Controller
149-1-000023	DB-15	Peristaltic Pump
149-1-000024	DB-9	LSP Series Syringe Pump (the PCB board of the pump needs to be modified)
149-1-000025	DB-15	TJ Series Syringe Pump
149-1-000026	None	TS Series Syringe Pump

Footswitch Working Modes:

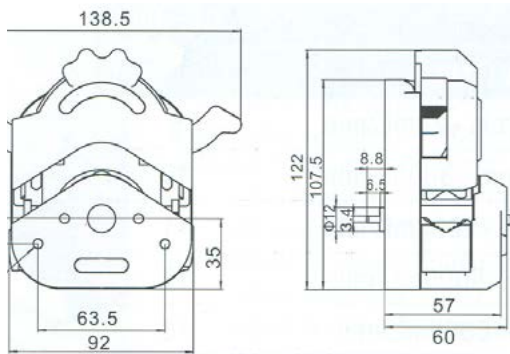
Model	Applicable Products
149-1-000021	1. Gated: Connect the footswitch to the pump. The pump stops after power up. The pump runs as long as the footswitch is pressed. 2. Trigger: Connect the footswitch to the pump. The pump stops after power up. Press footswitch, the pump starts running. Press footswitch again, the pump stops.
149-1-000022	Trigger: Press the footswitch one time, dispensing controller FK-1C starts running according to the set running time. When the set running time is out, FK-1 C stops.
149-1-000023	Gated: The pump runs as long as the footswitch is pressed.
149-1-000024	1. Gated: Connect the footswitch to the pump. The pump stops after power up. The pump runs as long as the footswitch is pressed. 2. Trigger: Connect the footswitch to the pump. The pump stops after power up. Press footswitch, the pump starts running. Press footswitch again, the pump stops.
149-1-000025	Trigger: Connect the footswitch to the pump. The pump stops after power up. Press footswitch, the pump starts running. Press footswitch again, the pump stops.
149-1-000026	Trigger: Connect the footswitch to the pump. The pump stops after power up. Press footswitch, the pump starts running. Press footswitch again, the pump stops.



PESU

YZII15/YZII25

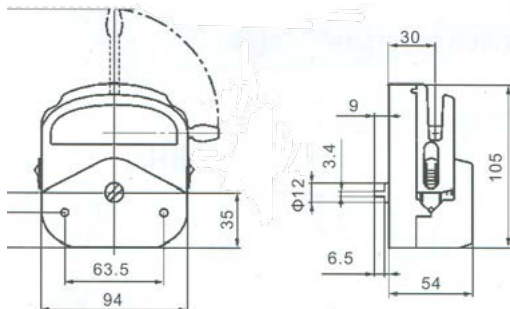
Change tubing easily and rapidly; Compact size. The tubing retention set is a linkage, It is convenient to load the tubing; Accept several tubing sizes for a wide flow range; The rollers adopt high quality materials and has good wearing property; The housing material is PESU. It has perfect rigidity and structure property. It is stable and autoclavable (200°C).



PESU

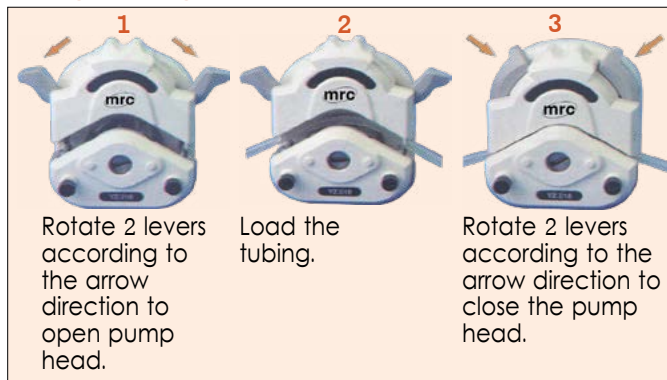
YZ1515x/YZ2515x

Change tubing easily and rapidly; Automatic tubing retention; Suitable for several tubing sizes; The rollers adopt high quality materials and has good wearing property; The housing of the pump head has perfect rigidity and structure property, and its materials are PESU or PPS which are stable and autoclavable (200°C).



PPS

Tubing Loading Procedure:



Model	Max. Flow Rates (mL/min)	Speed (rpm)	Housing Material	Rollers Material	Rollers Quantity	Tubing	Weight (Kg)
YZ1515x	2200	≤600	PESU/PPS	SS	3	13# 14# 19# 16# 25# 17# 18#	0.4
YZ2515x	1600		PESU/PPS			15# 24#	
YZII15	2200		PESU			13# 14# 19# 16# 25# 17# 18#	0.35
YZII25	3000		PESU			15# 24# 35# 36#	

050525x, Standard External Control Interface

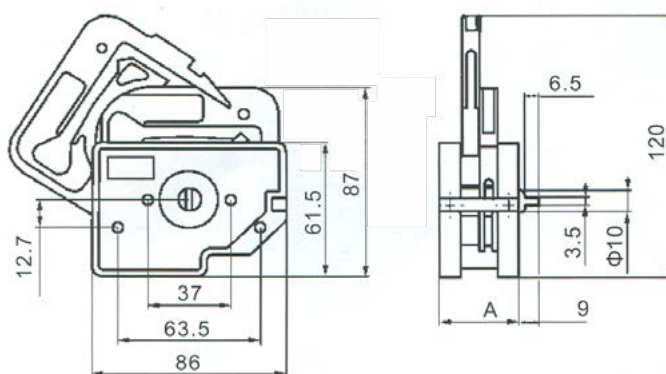


Introduction:

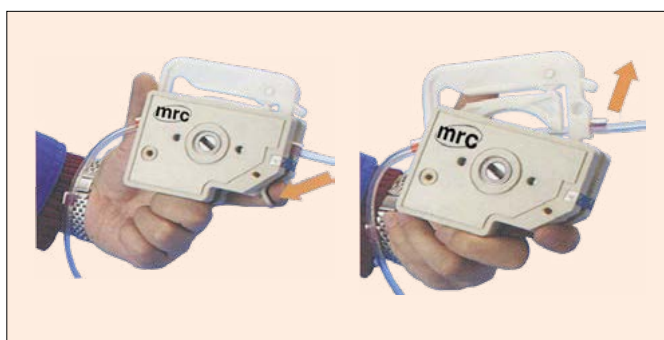
DG Series pump heads are designed for small flow rates, multi-channel fluids transfer. Easy to change and fix the tubing. Occlusion can be adjusted slightly. The rollers adopt high quality materials. The pump head consists of base, rotor assembly and easily dismantled cartridge.

Features:

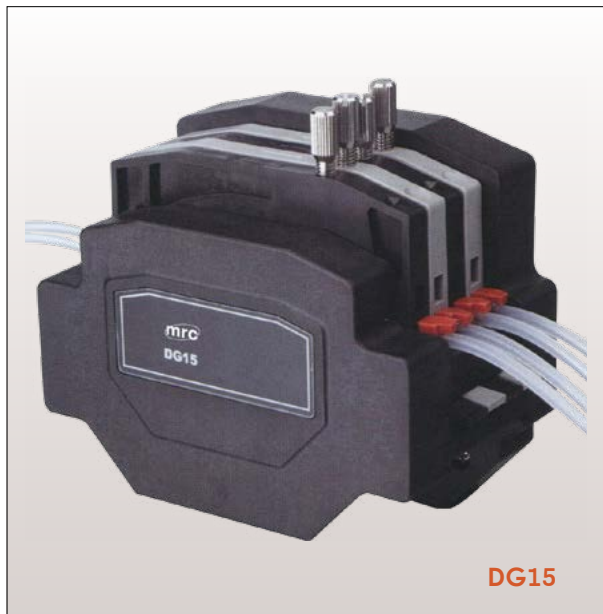
- Multi-channel transfer
- Change tubing easily
- Fix tubing easily
- Occlusion can be adjusted slightly by ratchet wheel to meet different tubing wall thickness requirements
- 6-roller and 1 O-roller pump heads available
- More rollers reduce pulsation and flow rates slightly
- Skillful trigger design, convenient to open the cartridges (DG-1, DG-2)
- Rollers adopt 316 stainless steel which has chemical resistance to organic solution, acid and alkali.



DG-1, DG-2 Trigger Operation:



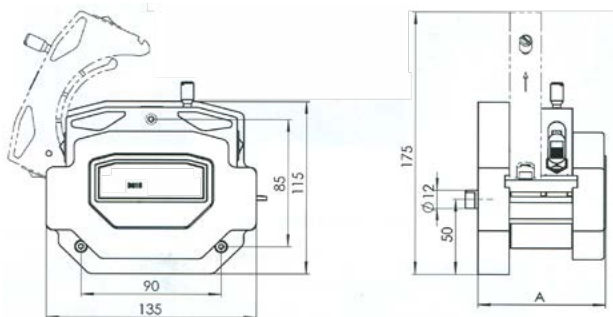
Model	Max. Flow Rates (mL/min)		Speed (rpm)	Cartridge Material	Tubing	Weight (Kg)	
	6 Rollers	10 Rollers				6 Rollers	10 Rollers
DG-1	48 (per channel)	32 (per channel)	≤100	POM/ PVDF	Inner Diameter ≤3.17 mm Wall Thickness 0.8-1 (rmm)	0.21	0.20
DG-2						0.27	0.26
DG-4						0.40	0.39
DG-6						0.54	0.51
DG-8						0.67	0.63
DG-12						0.95	0.88



DG15

Features:

- Cartridges and base can be separated. It's convenient to load the tubing
- Suitable for several tubing sizes for a wide flow range
- Occlusion can be adjusted slightly to meet different tubing wall thickness requirements
- The material of the roller is stainless steel
- The material of the cartridge working surface is POM. It has perfect self lubricating property to reduce tubing wear abrasion.



DG15-24/DG15-28/DG15-48, Multi-Channel

DG15 Series pump heads are designed for medium and small flow rates, multi-channel fluids transfer. Easy to change and fix the tubing. Occlusion can be adjusted slightly. The rollers adopt high quality materials. The pump head consists of base, rotor assembly and easy-to-load cartridges.

Pump Head Type:



DG15 - 24: 2 Channels 4 Rollers
 DG15 - 28: 2 Channels 8 Rollers
 DG 15 - 48: 4 Channels 8 Rollers

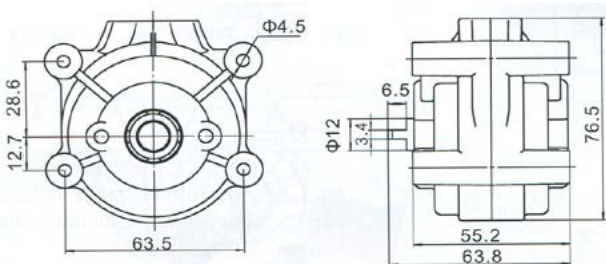
Model	Max. Flow Rates (mL/min)	Speed (rpm)	Cartridge Material	Rollers Material	Rollers Quantity	Tubing	Weight (Kg)
DG15-24	1800	≤600	PESU/PPS	SS	4	16# 25# 17#	0.82
DG15-28	75	≤100	PESU/PPS		8	Inner Diameter ≤3.17mm Wall Thickness 0.8 - 1 (mm) 13# 14#	0.67
DG15-48			PESU				0.87

BZ25



Features:

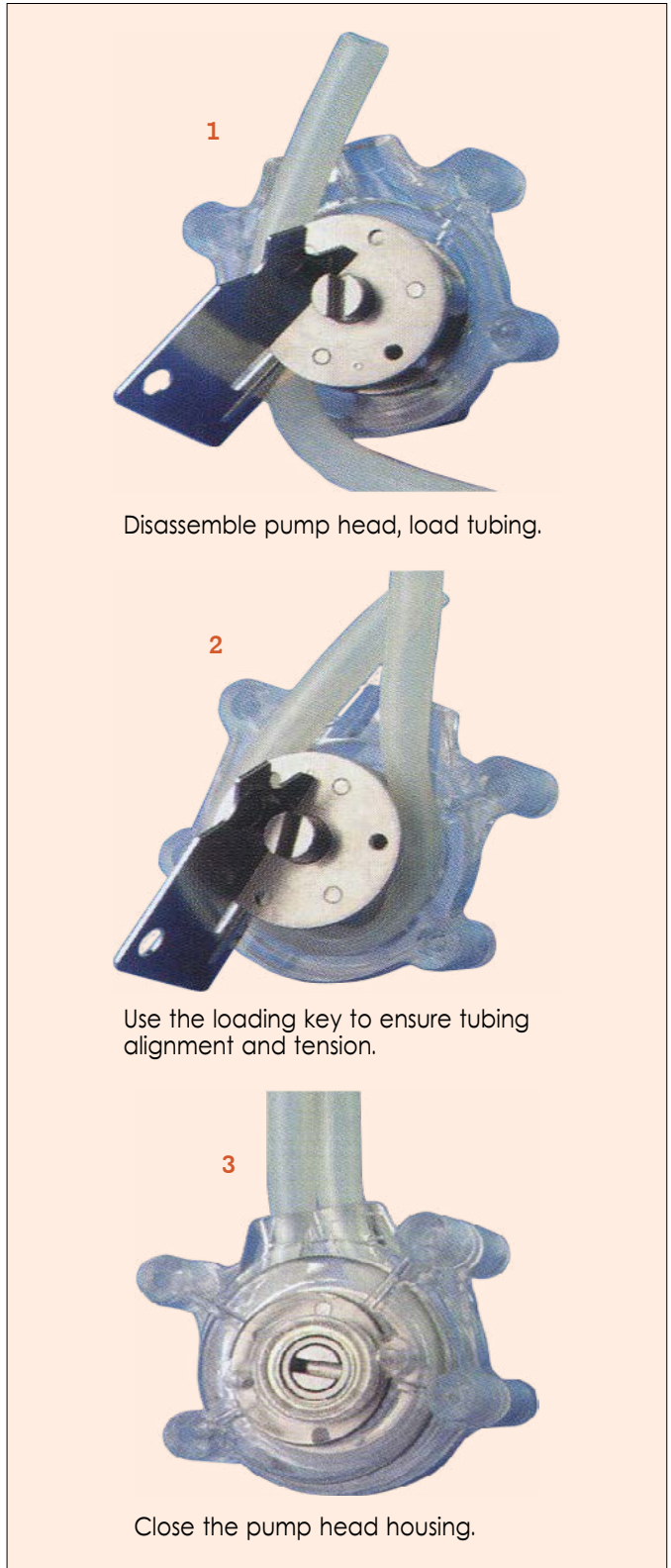
- Stable operation and stackable
- Compact size
- Dismounting the pump head from the drive is needed when loading the tubing
- Standard pump head, fixed occlusion
- Ideal for OEM.



BZ25,

Stainless steel or high performance plastic rollers available. Transparent PC housing, visible operation.

Tubing Loading Procedure:



Disassemble pump head, load tubing.

Use the loading key to ensure tubing alignment and tension.

Close the pump head housing.

Model	Max. Flow Rates (mL/min)	Speed (rpm)	Housing Material	Rollers Quantity	Tubing	Weight (Kg)
BZ25	1600	≤600	PC	3	24#	0.31

PERISTALTIC PUMPS Low Pulse Pump Heads



DMD25, Low Pulse Pump Head

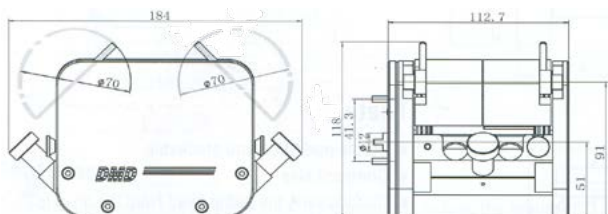
DMD25 pump head is designed for high accuracy dispensing. Twin offset track design and Double-Y tubing ensure the high dispensing accuracy. Hay cutter style retainer prevents the tubing from quick abrasion caused by shock. The pump head adopts stainless steel, aluminum and POM materials. The performance is reliable and stable. It is ideal for industry application.

Tubing Loading Procedure:

- 1** Lift the two levers at both sides of the pump head and remove the track.
- 2** Loose the knobs, open the hay cutter style fixing by turning it through one quarter turn. Put the Double-Y tubing on the rollers and locate it over the mushroom pegs on both sides of the pump head.
- 3** Close the hay cutter style fixing. Tighten the knobs on both sides of the pump head.
- 4** Replace the track and secure it by closing the two levers.

Features:

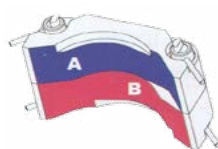
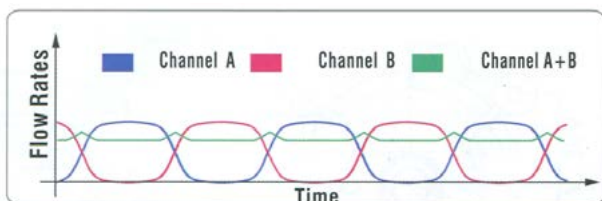
- Suitable for accurate liquid dispensing
- Track assembly and base are separated. Easy to load tubing
- Accept many sizes of tubing to realize wide range flow rates transferring
- Twin offset track combing with Double-Y tube elements reduce the pulsation successfully. The accuracy can reach $\pm 0.5\%$
- Hay cutter style fixing prevents the tubing from quick abrasion caused by shock
- Front rear support plate and the compression block adopt hard anodized aluminum alloy.



Shaft Type:

- Long Shaft (for single pump head)
- Long Shaft (for stack, connect drive directly)
- Short Shaft (for stack).

Pulsation Reducing:



Twin offset tracks reduce the pulsation, increase the dispensing accuracy.

Model	Max. Flow Rates (mL/min)	Speed (rpm)	Rollers Quantity	Rollers Material	Track Material	Tubing	Weight (Kg)
DMD25	150	≤ 350	6	SS	POM	119#	2.5
	800					120#	
	1500					15#	
	2400				Aluminum Alloy	24#	3.0
	2950					35#	
	4000					36#	

KZ25



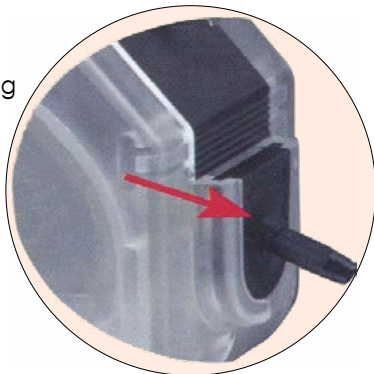
Features:

- Cartridges and base can be separated. It's convenient to load the tubing
- Pump heads can be stackable
- Compact size and a wide flow range
- Ideal for OEM.

Shaft Type:

- Long Shaft (for stack, connect drive directly)
- Short Shaft (for stack).

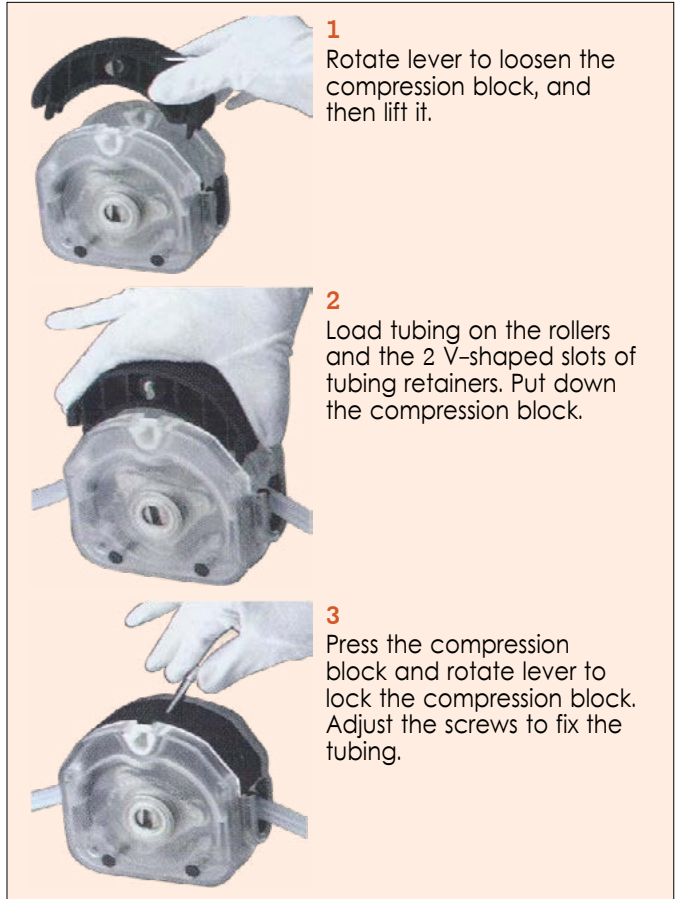
**Upgraded
Tubing fitting
Structure**



KZ25, Quick-load Pump Head

Stainless steel rollers available PPS compression block. Self-lubrication to reduce tubing wear. Good rigidity for stable size. Good chemical compatibility and high temperature resistance High quality materials form a perfect combination. That offers excellent technical and service performance.

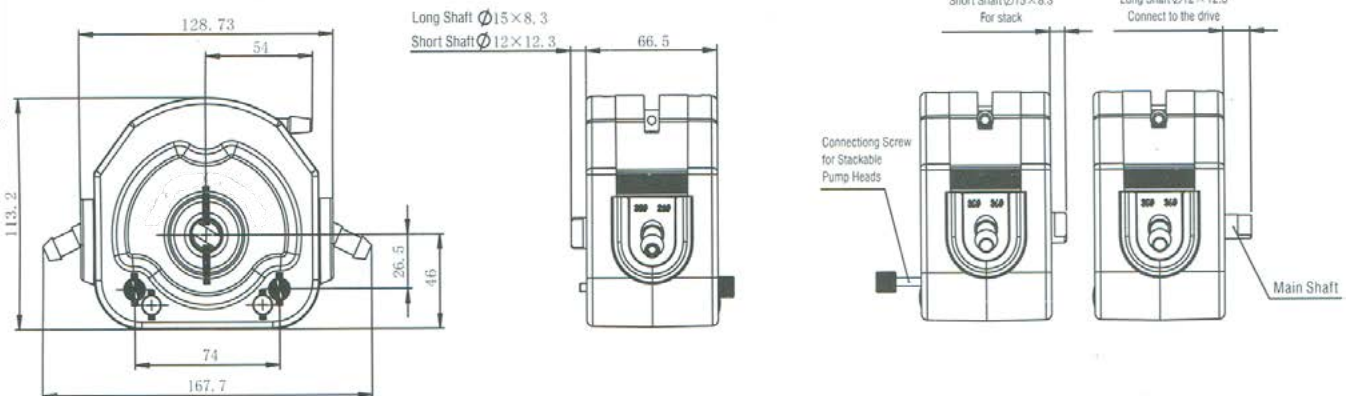
Tubing Loading Procedure:



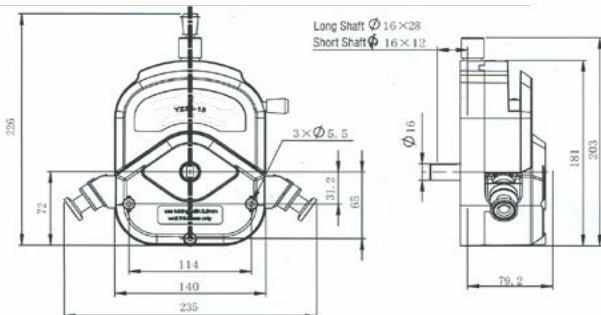
1
Rotate lever to loosen the compression block, and then lift it.

2
Load tubing on the rollers and the 2 V-shaped slots of tubing retainers. Put down the compression block.

3
Press the compression block and rotate lever to lock the compression block. Adjust the screws to fix the tubing.



Model	Max. Flow Rates (mL/min)	Speed (rpm)	Rollers Material	Housing Material	Compression Block Material	Rollers Quantity	Tubing	Weight (Kg)
KZ25	1800	≤600	SS	PC	PPS	3	15#	0.79
	3500						24#	
	5000						35#	
	6000						36#	



Tubing Clamp Mode



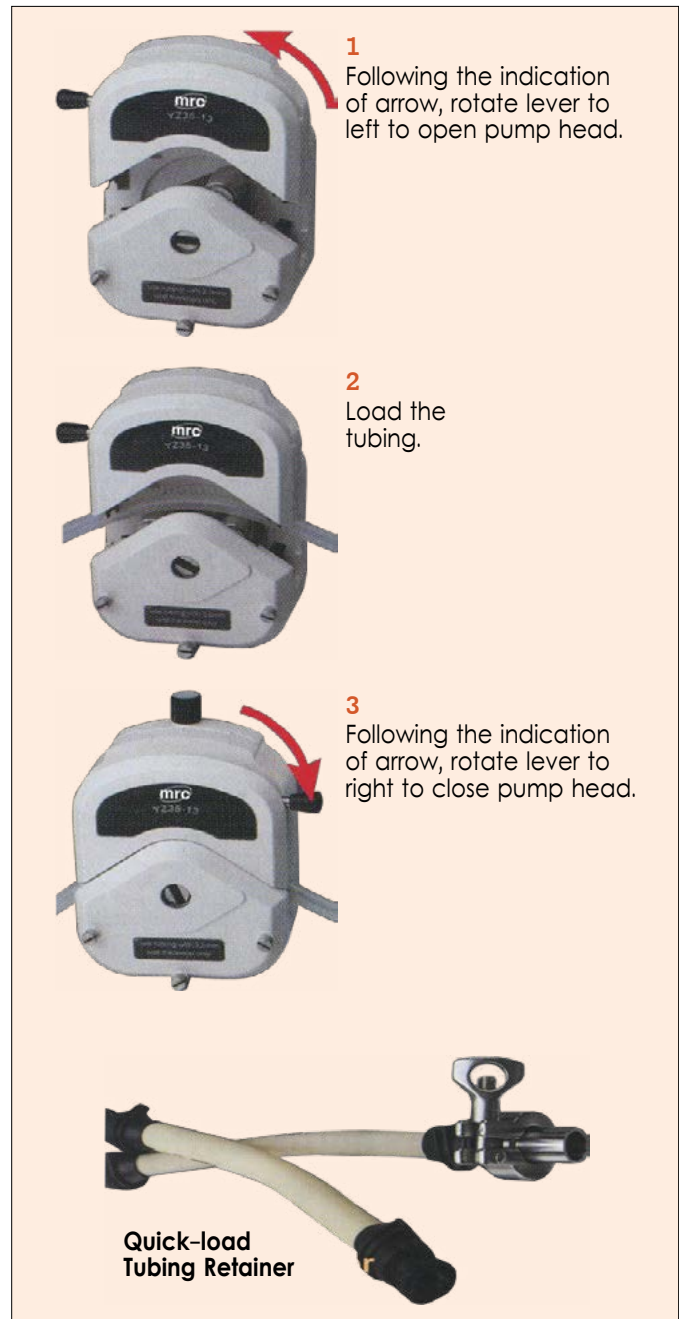
Tubing Fitting Mode

YZ35-13, Industrial Easy-load Pump Head

Features:

- Pump heads can be stackable
- Change tubing easily and rapidly
- Automatic tubing retention
- Suitable for several tubing sizes
- The rollers adopt high quality materials and has good wearing property
- The housing of the pump head has perfect rigidity and structure property
- Its material is PSU which has stable performance and high temperature resistance (150°C).

Tubing Loading Procedure:



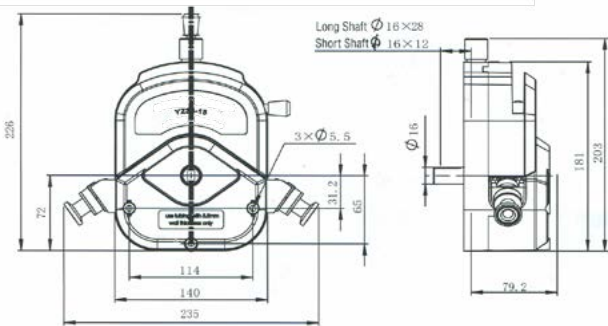
Model	Max. Flow Rates (mL/min)	Speed (rpm)	Rollers Quantity	Rollers Material	Housing Material	Tubing	Weight (Kg)
YZ35-13	11000	≤600	3	SS	PSU	73# 82#	1.65



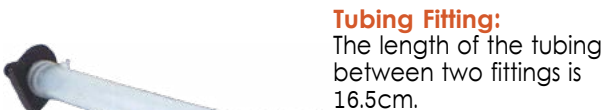
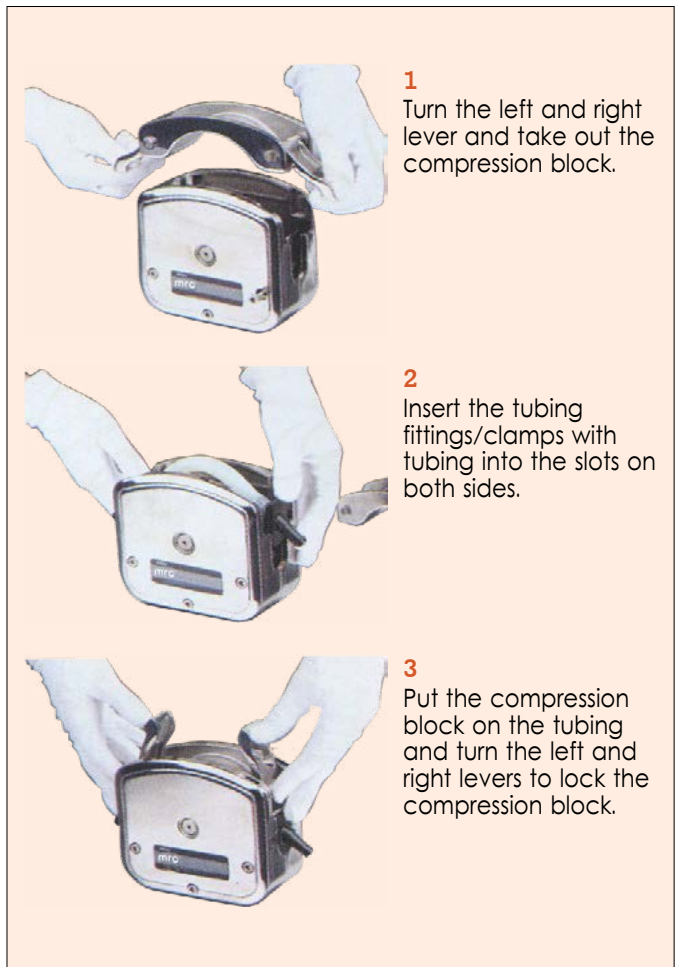
KZ35, Industrial Quick-load Pump Head

Features:

- Key parts adopt 304 stainless steel. Suitable for pharmaceutical and food industry
- Compression block and base are separate. Easy to load the tubing
- Accept 73# and 82# tubing. The flow rate range is wide
- Two pump heads can be stacked
- The advantage of selecting tubing clamps: No residue fluids in the tubing
- The advantage of selecting tubing fitting: Save tubing cost. The low cost tubing can be connected outside of the pump head.



Tubing Fittings/Clamps Installation Procedure:



Model	Max. Flow Rates (mL/min)	Speed (rpm)	Rollers Quantity	Tubing Clamp/Fitting Material	Pump Head Material	Tubing	Weight (Kg)
YZ35	11000	<600	3	PVDF	304 Stainless steel	73# 82#	3.7

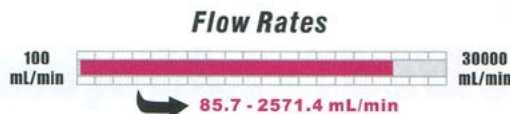
PERISTALTIC PUMPS Micro Gear Pumps



MGP30001JA/MGP30001FA, Micro Gear Pumps for High Temperature/High Pressure Fluid

FLOW-RATE

DISPENSING



MGP30001FA micro gear pump has two work modes of flow mode and dispensing mode.

It delivers flow rates from 85.7 to 2571.4 ml/min and dispensing volume is from 0.1 mL to 999L.

128 X 32 LCD displays the parameters and information. The compact and precise gear pump heads are noiseless, pulsation-free and suitable to transfer high temperature and high pressure fluids.

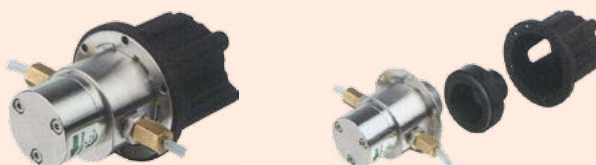
MGP30001JA can install variable pump head to provide flow rates from 85.7 to 2571.4 ml/min, it adopts brushless DC motor and has features of high efficiency and free maintenance.

Model	MGP30001FA	MGP30001JA
Flow rates	85.7 -2571.4 (mL/min)	
Speed	300-3000rpm,	
Speed accuracy	±1.0%	
Speed resolution	1.0rpm	
Dispensing volume	0.1 mL to 999L	No dispensing function
Copy number	0-9999, 0 means unlimited cycle	
Pause time	1 second to 999 hours, resolution is 0.1 s	
Calibration time	30 to 1800 second, resolution is 1 s	
Communication interface	RS485	
Diameter of particle in liquid	≤ 10µm	
Max. Outlet pressure (Testing medium is water)	MG204: 0.8MPa MG209: 0.8MPa MG213: 0.3MPa	
Liquid temperature	-45 to 50°C with PTFE gear, -45 to 120°C with PEEK gear	
Viscosity of liquid	≤ 200cSt	
Power supply	AC 176-264V/90-130V, 50/60Hz	
Power consumption	≤50W	
Operating condition	Temperature 0 to 40°C Relative humidity <90% (non-condensing)	
Drive dimensions	232x142x149(mm) (LxWxH)	
Weight	2.83 kg	
IP rating	IP31	

Functions and Features:

- Acceptable pump head: MG204, MG209, MG213
- Suitable to transfer high temperature fluids or high pressured fluids
- Prime function for fast filling and emptying
- Flow rates and dispensing volume can be calibrated (MGP30001FA)
- Display: 128 x 32 LCD display all the running parameters (MGP30001FA)
- External control input functions: Control the flow rates and start/stop of the pump
- External control output functions: Output start/stop and speed signal (MGP30001FA)
- Dispensing function: Dispensing volume, copy number and pause time can be set (MGP30001FA)
- Footswitch: Control the start/stop of the pump
- Communication function: Realize computer control through RS485 interface
- Memory function: Store the running parameters automatically
- Cooling code: Heat-emitting fan
- Decoupling will occur when the pump load exceeds the maximum coupling torque provided by the alignment of the two magnets.

Applicable Pump Heads: MG204
MG209
MG213



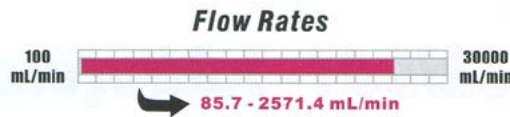
Model	Pump Head	Speed (rpm)	Flow Rates (mm)	Weight (Kg)
MGP30001JA MGP30001FA	MG204	300-3000	85.7-857.1	3.25
	MG209		171.4-1714.3	3.26
	MG213		257.1-2571.4	3.28



MGP30001JB/MGP30001FB, Micro Gear Pumps for High Temperature/High Pressure Fluid

FLOW-RATE

DISPENSING



Model	MGP30001FB	MGP30001JB
Flow rates	85.7 -2571.4 (mL/min)	
Speed	300-3000rpm,	
Speed accuracy	±1.0%	
Speed resolution	1.0rpm	
Dispensing volume	0.1 mL to 999L	No dispensing function
Copy number	0-9999, 0 means unlimited cycle	
Pause time	1 second to 999 hours, resolution is 0.1 s	
Calibration time	30 to 1800 second, resolution is 1 s	
Communication interface	RS485	
Diameter of particle in liquid	≤ 10µm	
Max. Outlet pressure (Testing medium is water)	MG204: 1.4MPa MG209: 0.9MPa MG213: 0.8MPa	
Liquid temperature	-45 to 50°C with PTFE gear, -45 to 120°C with PEEK gear	
Viscosity of liquid	≤ 200cSt	
Power supply	AC 220V/110V + 20%, 50Hz/60Hz	
Power consumption	≤150W	
Operating condition	Temperature 0 to 40°C Relative humidity <90% (non-condensing)	
Drive dimensions	290x207x180(mm) (LxWxH)	
Weight	5.1 kg	
IP rating	IP31	

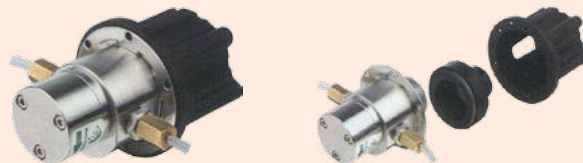
MGP30001FB gear pump has two work modes of flow mode and dispensing mode. It delivers flow rates from 85.7 to 2571.4ml/min and dispensing volume is from 0.1 mL to 999L. 128 X 32 LCD displays the parameters and information. The compact and precise gear pump heads are noiseless, pulsation-free and suitable to transfer high temperature and high pressure fluids.

MGP30001JB can install variable pump head to provide flow rates from 85.7 to 2571.4 ml/min, it adopts brushless DC motor and has features of high efficiency and free maintenance.

Features:

- Acceptable pump head: MS204, MS209, MS213
- Suitable to transfer high temperature fluids or high pressured fluids
- Prime function for fast filling and emptying
- Flow rates and dispensing volume can be calibrated (MGP30001FB)
- Display: 128 x 32 LCD display all the running parameters (MGP30001FB)
- External control input functions: Control the flow rates and start/stop of the pump
- External control output functions: Output start/stop and speed signal (MGP30001FB)
- Dispensing function: Dispensing volume, copy number and pause time can be set (MGP30001FB)
- Footswitch: Control the start/stop of the pump
- Communication function: Realize computer control through RS485 interface
- Memory function: Store the running parameters automatically
- Cooling code: Heat-emitting fan
- Decoupling will occur when the pump load exceeds the maximum coupling torque provided by the alignment of the two magnets.

Applicable Pump Heads: MG204
MG209
MG213



Model	Pump Head	Speed (rpm)	Flow Rates (mm)	Weight (Kg)
MGP30001JB MGP30001FB	MG204	300-3000	85.7-857.1	5.39
	MG209		171.4-1714.3	5.40
	MG213		257.1-2571.4	5.42