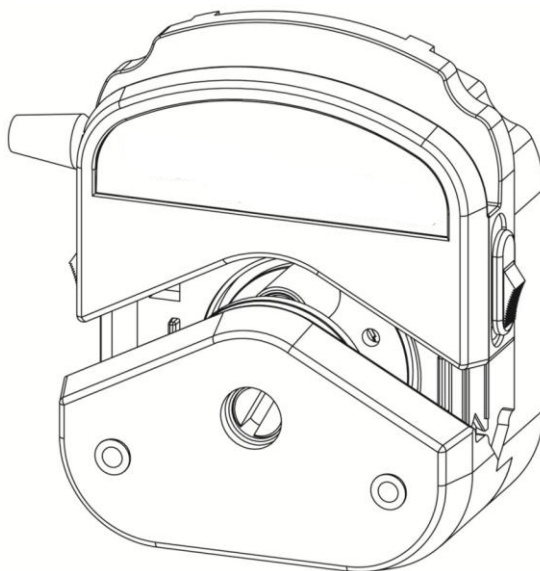


# **Pump Head**

## **Manual of YZ Series**





### **Important Information :**

- Please read the operation manual before using the product.



### **Warning:**

- Tubing may have crack due to wear, the liquid may flow out from tube, and hurt human body or damage the pump head. So we need to check and change tube regularly.
- If there is liquid on pump head, we need to clean it with soft cloth.
- We need to check the tube every time when we start the pump.
- After the tube been used sometime, we can turn the tube 90 °or move the working position to extend the tube lifetime.
- Loosen the tubing when not in use for a long time.

# Catalog

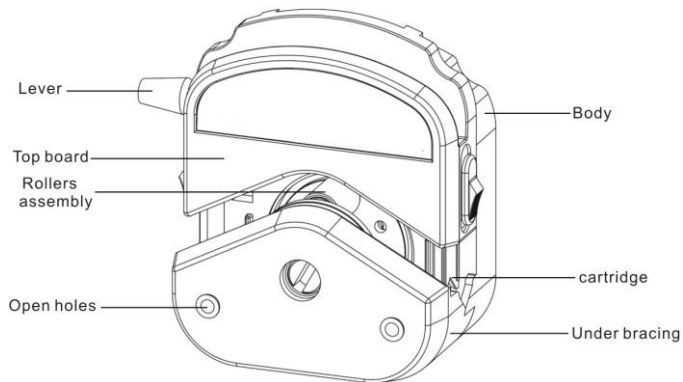
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## 1. Product Introduction

Easy-load type pump head, easy to install tubing, can mount multiple pump heads according to user's requirement, convenient for OEM application. There is two materials for YZ1515x and YZ2515x pump head shell: PPS( Polyphenylene sulfide material), black color, resist organic solvent corrosion, high precision, high strength, suitable for industrial sites or work in bad environment. Another material is PSF (polysulfone material), white color, delicate appearance, good rigidity, high precision, suitable for laboratory or support analytical instruments.

## 2. YZ Series Pump Head Installation



### 2.1 Single Pump Head Installation

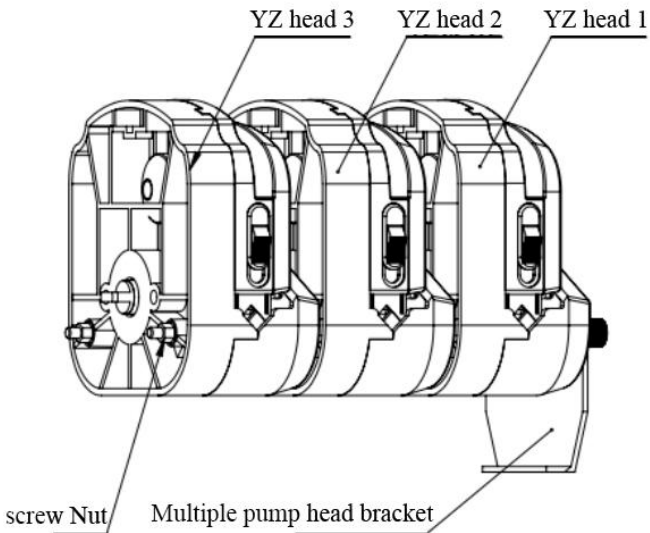
- Take two screws insert into mounting holes of the pump head separately. Put the pump head shaft into pump drive coupler groove, then put the screws into pump drive mounting hole, fasten it.



- Note: Try to use same strength to fasten two screws, and can not be too tight.

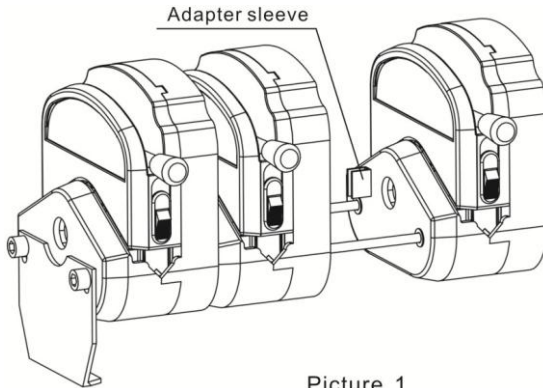
## 2.2 Multiple Pump Head Installation

- Usually, the pump head have been installed on pump drive. Below is instruction of pump head installation if you receive the pump head and drive separately or need to change pump head.
- The pump head as in below picture when you receive it.

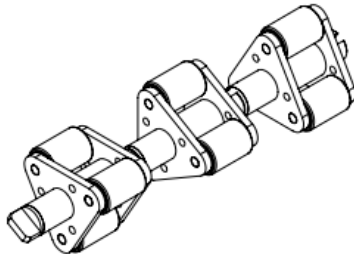


Take off the screw nut, install the complete set of pump head 1/2/3 together to pump drive.

**Note:** If the pump head been disassembled into three separate pump head, the roller assembly should be staggered in sequence as in below picture 2.



Picture 1



Picture 2

### 2.3 Tubing Installation

- Pull the lever 180° counterclockwise, and open the upper block.
- Lift the cartridges of two sides separately, and put the tubing between

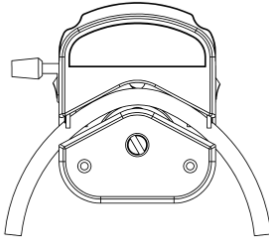


rollers and upper block. .

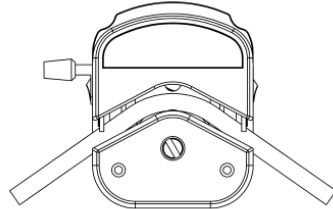
- Pull the lever 180°clockwise, and press the upper block to the correct position. The cartridge hold the tubing stably, to prevent tubing move during working.

### 2.4 Tubing Installation Note

- Before you press the upper block, please make sure the tube have been straighten. Otherwise it will cause the tubing stack in the pump head, make the tube scratched. The tube position as in below picture:

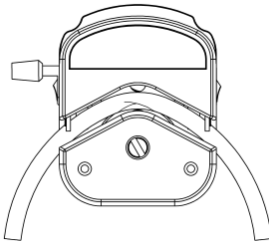


Wrong

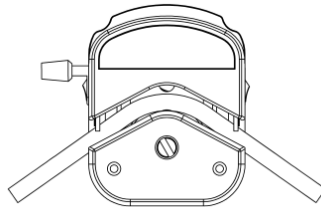


Correct

- Please make sure the tube is in natural direction inside pump head, can not be twist.



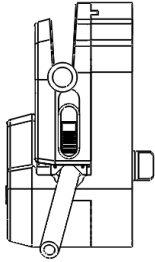
Wrong



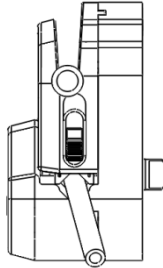
Correct



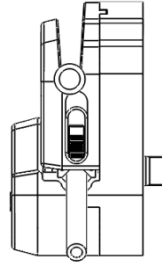
- The tube should be straight in the inlet and outlet area of the pump head, should not be forward or backward.



Wrong

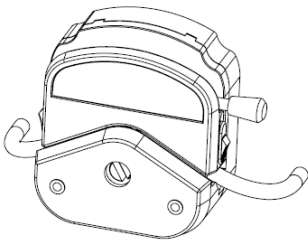


Wrong

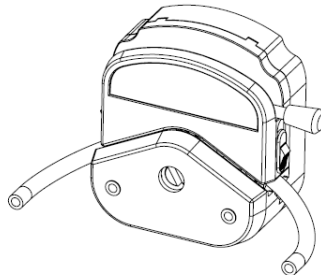


Correct

- When need to use the tube in bend state, haven't leave enough space, then it will make the tube working position deviation, and tube will be scratched during working.



Wrong



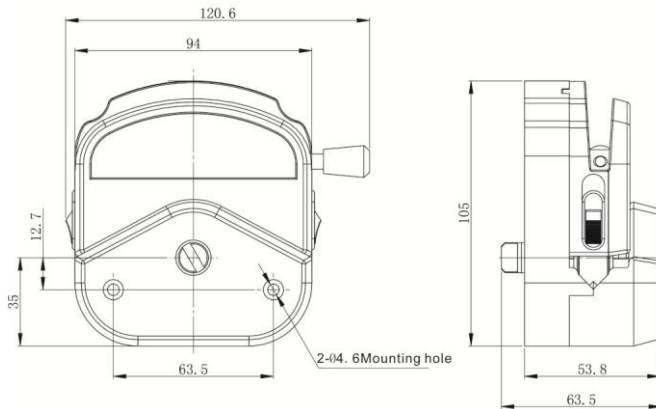
Wrong





Note : If must use the installation as in above wrong pictures, please contact with us to make a suitable solution.

### 3. YZ Series Pump Head Dimension( Unit:mm)

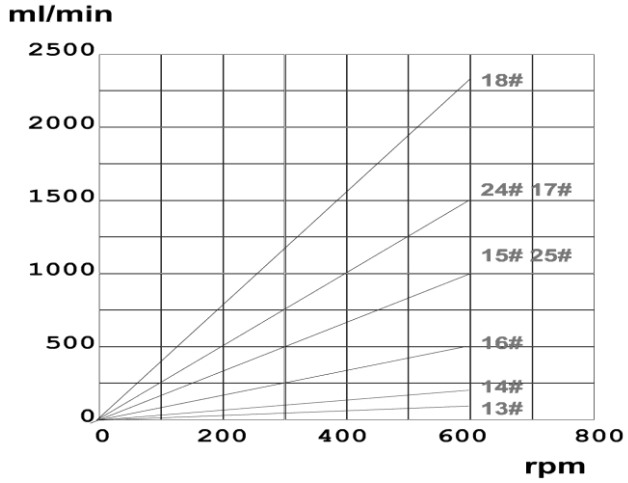


### 4. YZ Series Pump Head Specification

Pump Head	Tubing	ID×Wall thickness (mm)	mL/r	Flow Rate(mL/min) (0.1-600rpm)	Tubing Max. Pressure (Mpa)		Material/Weight (kg)	
					Intermittent	Continuous	PSF	PPS
YZ1515x	13#	0.8×1.6	0.07	0.007~42	0.27	0.17	0.40 (3 rollers)	0.46 (3 rollers)
	14#	1.6×1.6	0.27	0.027~162				
	19#	2.4×1.6	0.55	0.055~330				
	16#	3.1×1.6	0.82	0.082~492	0.24	0.14	0.44 (6 rollers)	0.50 (6 rollers)
	25#	4.8×1.6	1.7	0.17~1020				
	17#	6.4×1.6	2.9	0.29~1740				
YZ2515x	18#	7.9×1.6	3.8	0.38~2280	0.10	0.07		
	15#	4.8×2.4	1.7	0.17~1020	0.27	0.17		
24#	6.4×2.4	2.9	0.29~1740					



### Flow Rate Chart





## **5. Maintenance**

When pump is not working, please loose the cartridges which press the tubing to avoid changing the shape of tubing because of longtime extrusion.

Keep the rollers of pump head clean and dry, otherwise it can quicken the tubing wear, reduce the useful life of tubing and lead the rollers to damage in earlier.

Pump head cannot resist super corrosive liquid. Please pay attention to it when using.

## **6. Warranty and After Sales Servive**

We support 1 year warranty (not including tubing). During the warranty, if the products are damaged because of users' wrong operation or other human damages,our company do not responsibility for warranty. Beyond the warranty, we only charge the cost of maintenance. Refer to all maintenance including in and beyond the warranty, we do not bear any freight charges because of maintenance.

