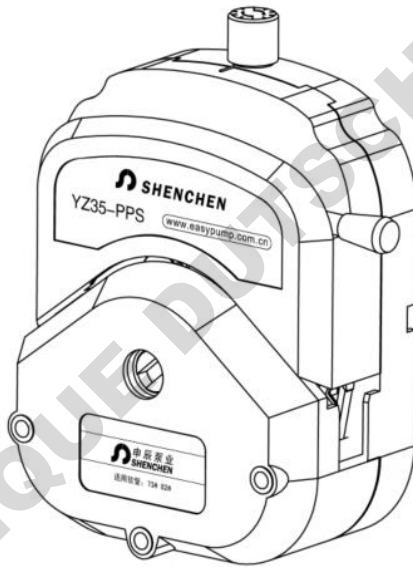


Shenchen Precision Pump

Manual of YZ35 PPS Pump Head



Baoding Shenchen Precision Pump Co.,Ltd



Note:

- Please read the manual carefully before operating the product.



Warning:

- Tubing may have crack due to wear. It results in the overflow of fluid from tubing. In that time human body and instruments may be damaged. So user must check usually and change tubing in time.
- When changing the tubing or the position of the tubing, please stop the pump head rotating, otherwise fingers or clothes may be caught.
- There are moving parts of the pump head inner, before opening the upper block, it must be carried out according to the following requirements:
 - Ensure the pump is isolated from the main power supply.
 - Ensure there is no pressure in tubing.
 - If the tubing gets mistakes, ensure the liquid in the tubing is discharged to other containers or drain tubing.
 - If transports the dangerous liquid, must wear the protective clothing and eye protection.

Catalogue

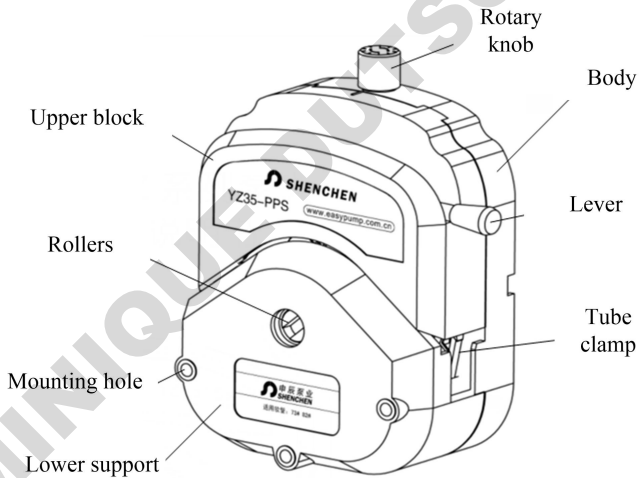
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1. Product Introduction

Easy-load pump head is very convenient to install the tube clamp. Following customers' requirements, it can connect with multichannel, suitable for OEM supporting application. YZ35 pump head is made by pps--Polyphenylene sulfide material which makes it more outstanding in rigidity and structural performance. It has super high temperature resistance and anti-corrosion, especially in strong chemical corrosion resistance such as organic solvents, which effectively reduces the damage rate of the pump head and greatly reduces the customer's repair and maintenance costs.

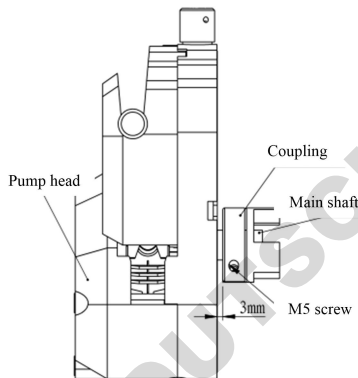
2. Instructions



2.1 Pump Head Installation

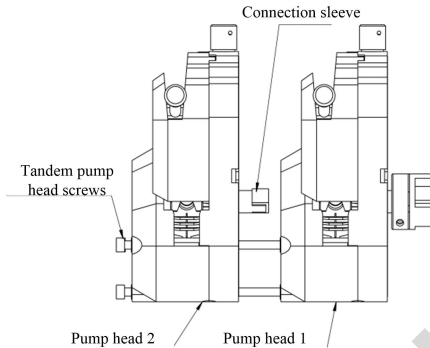
2.1.1 Single Pump Head Installation

First the coupling is installed on main shaft of the pump head, tighten the M5 screws after positioning according to the size shown in the figure, as shown, and then connect the pump head to the drive shaft through the coupling.



2.1.2 Multiple Pump Head Installation

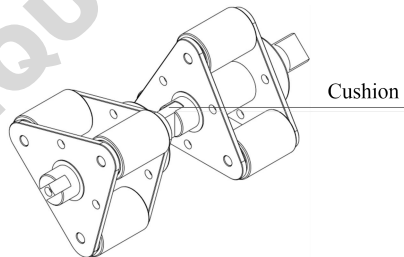
A plurality of YZ35 pump heads are used with extended screws in tandem, with 2 pump heads as an example. First, the coupling is mounted on the main shaft of the tandem pump head 1, tighten the M5 screws, and then install the cushion on the shaft head of the pump head 2, next insert the shaft end of pump head 2 into the shaft groove of pump head 1. Connect the serial connected pump head to the drive with extended screws as shown below.



Note:

When install the pump, the entire pump head is disassembled into two separate pump heads as shown in the picture above. The two pump head roller assemblies should be staggered and installed in sequence. The wheel status is as shown in the figure below.

The main shaft connection between two adjacent pump heads needs to install a shock absorber as shown in the figure. Failure to do so will result in abnormal operation of the pump head.



Note: Users need to fasten the screws with similar force, and can't be too tight, to avoid the lower support deform and make working noise.

2.2 Tube Installation

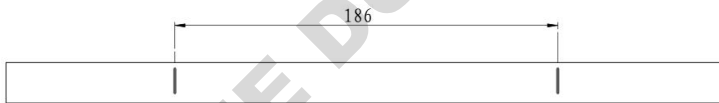
2.2.1 Tube Clamp

- ✧ Function of the tube clamp: It can better fix the tube and reduce tube shaking, besides improve the transmission stability and transmission accuracy. Effectively reduce tube wear and extend tube life.
- ✧ Tube Clamp Type: 26#, 73#, 82#, as below:

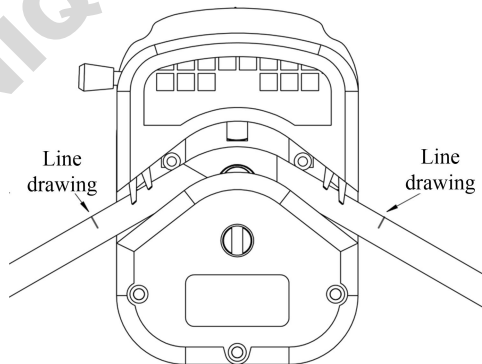


2.2.2 Tube Installation

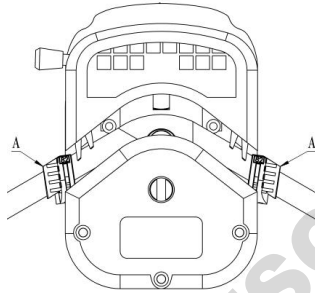
- ✧ Pull the lever anti-clockwise 180°, open the upper block.
- ✧ Draw two lines with a distance of 186mm on the tube.



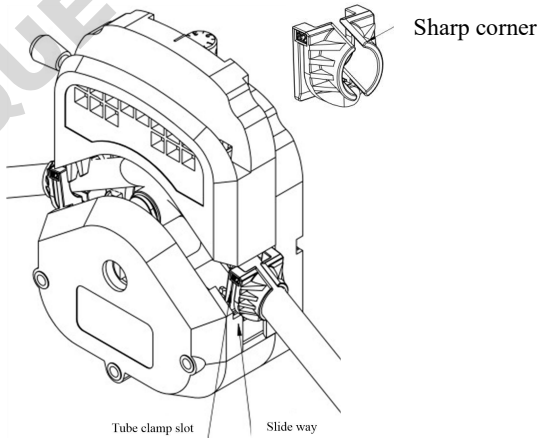
- ✧ Put the tube between rollers and upper block, the line faces up.



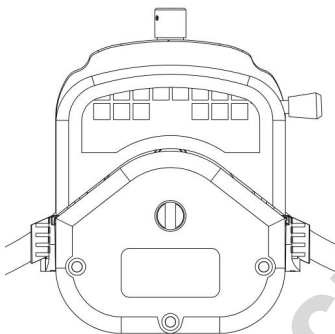
- ✧ Sleeve the tube into the tube clamp, the sharp point of the tube clamp should align at the line. Pay attention to ensure that the split surfaces of the two tube clamps are parallel and parallel to the installation surface of the pump head.



- ✧ Clip slot of two tube clamps into the slideway of the pump head, press hard until it can't be pressed. At this time, the tube clamp is not installed in place.



- ✧ Pull the lever clockwise and slowly press down until the upper block is pressed down. At this time, the tube clamp is also installed in place.

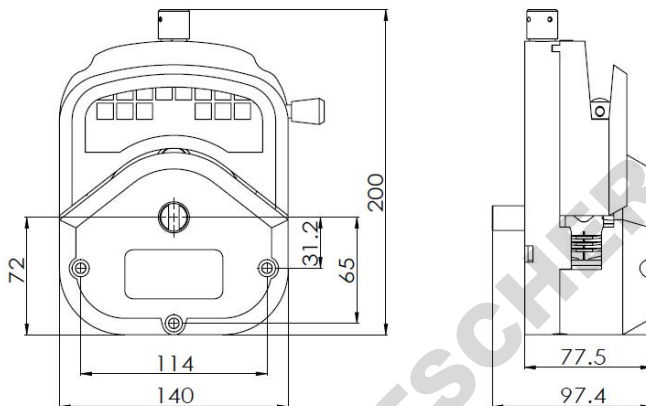


2.3 YZ35 Pressure Adjustment

YZ35 pump head can adjust pressure of the tube outlet by the rotary knob on pump head body, rotate with the arrow direction, pressure enlarge, otherwise reduce.



3. Installation Dimension

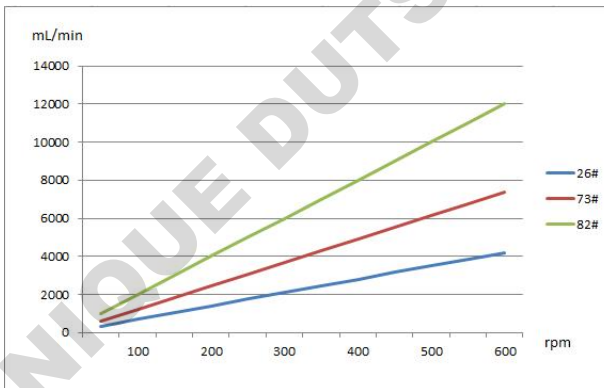


4. Pump Head Specification

4.1 Pump Head Specification

Pump Head	Tube Type	ID*WT (mm)	RPM	(0.1-600rpm) Flow range ml/min	Material&weight	
					Aluminum Alloy	PPS
YZ35	26#	6.4*3.3	6.9	0.69-4200	4.36	1.5
	73#	9.6*3.3	12.3	1.23-7400		
	82#	12.7*3.3	20	2-12000		

4.2 Flow Rate Reference Table



Note: The above-mentioned flow reference data is measured under the conditions of no pressure and no suction lift at room temperature under standard atmospheric pressure with pure water as the transmission medium, In actual use, it is affected by many factors such as transmission medium, inlet and outlet pressure, tube material and error, working environment, etc. The flow rate may vary, this data is for reference only.

5. Troubleshooting

If the pump head is running but the flow is small or no flow, please check the following items:

- Check whether the pump is supplied with transmission liquid;
- Detect whether the suction side pipeline of the pump is blocked by suction wall;
- Check if the tube is cracked;
- Check for blockages or kinks in the tube;
- Check whether the wall thickness of the tube used is correct;
- Check whether all valves in the tube are open;
- Check whether the rotation direction of the pump is correct.

6. Maintenance

- When pump does not work, please loose the cartridges of pressing the tubing for avoiding changing the shape of tubing because of longtime extrusion.
- Keep the rollers of pump head clean and dry, otherwise it can quicken the tubing wearing, reduce the useful life of tubing and lead the rollers to damage in earlier.
- Before the peristaltic pump start running each time,check the tubing carefully if it is damage.
- If the pump head in water accidentally, use soft cloth and other absorbent soft cloth to wipe dry to prevent damage to the pump head.
- After replacing the tube, fluid or any connecting tube, must be re-calibrated the pump. It is recommended to re-calibrate the pump regularly to maintain accuracy.
- Pump head can not resist organic solvent (Except for special indication) and strong corrosion liquid, please be attention when use it.
- The inner diameter and wall thickness of tubing may have some deviations due to its tolerance and different bathes. That may make influence on product flow accuracy, please leave a margin when choose it.
- It will affect the flow rate, causing decreasing flow when input port and output port change small or there are suction and lift.
- The data tested in a short time in this manual may change for using a long time.
- The company shall not bear the direct and indirect losses caused by the malfunction or improper operation of this product.

7. Warranty and After Service

We support 1 years warranty for the pumps, subject to the exceptions below. Our company shall not be liable for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. This warranty does not obligate our company to bear any costs of removal, installation, transportation, or other charges which may arise in connection with a warranty claim.

If the pump fails during the warranty period, after confirmation by our technical department, we will provide spare parts free of charge. Customers will need to bear the shipping cost.

Exceptions:

- The warranty shall not apply to repairs or service necessitated by normal wear and tear or for lack of reasonable and proper maintenance.
- All tubing and pumping accessories as consumable items are excluded.
- Electrical surge as a cause of failure is excluded.
- Chemical attack is excluded.
- Improper operation or man-made damage as a cause of failure is excluded.

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