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JAIYNIYADAKATA JYPC-503A

JIAYIN JYPC-503A Electromagnetic Solenoid Water Pump Instruction Manual

Model: JYPC-503A

1. Introduction

This instruction manual provides essential information for the safe and efficient use of the JIAYIN JYPC-503A Electromagnetic Solenoid Water Pump. Please read this manual thoroughly before installation and operation to ensure proper function and to prevent damage or injury. This pump is designed for applications requiring precise fluid delivery, such as in coffee machines, electric irons, steam machine mops, and spray machines.

2. Safety Instructions

Always observe the following safety precautions to reduce the risk of electric shock, injury, or damage to the pump or connected appliances.

- **Electrical Safety:** Ensure the power supply matches the pump's rated voltage (AC 110V - 120V, 60Hz). Disconnect power before any installation, maintenance, or troubleshooting. All electrical connections must be performed by a qualified technician and comply with local electrical codes.
- **Fluid Compatibility:** This pump is designed for water or non-corrosive liquids. Do not use with flammable, corrosive, or viscous fluids.
- **Temperature Limits:** The fluid temperature (Tf) should not exceed 35°C. The ambient temperature (TA) should not exceed 70°C.
- **Installation Environment:** Install the pump in a dry, well-ventilated area, protected from direct moisture and extreme temperatures.
- **Proper Handling:** Handle the pump with care. Avoid dropping or subjecting it to strong impacts.
- **Intended Use:** Use the pump only for its intended purpose as described in this manual.

3. Product Overview

The JIAYIN JYPC-503A is a miniature electromagnetic pump valve designed for precise fluid control in various household and commercial appliances. It features a robust construction with a copper pipe outlet, ensuring durability and reliable

performance.



Figure 3.1: Front view of the JIAYIN JYPC-503A pump, showing the main body and inlet/outlet ports.

Key features include:

- Rated Voltage: AC 110V - 120V, 60Hz, 60W.
- Operating Pressure: 15 bar.
- Working Medium: Water or non-corrosive liquid.
- Construction: Genuine original OEM part with coil, plastic, steel, and copper components.
- Application: Suitable for coffee machines, electric irons, steam machine mops, and spray machines.

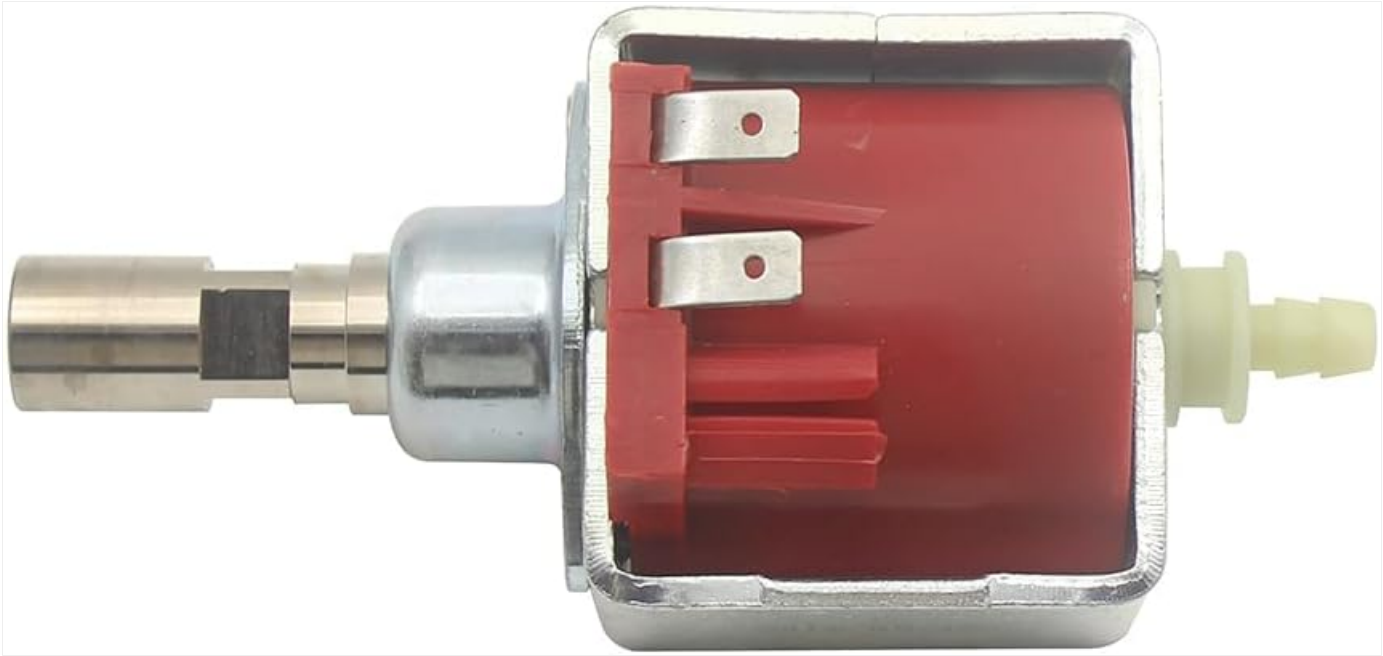
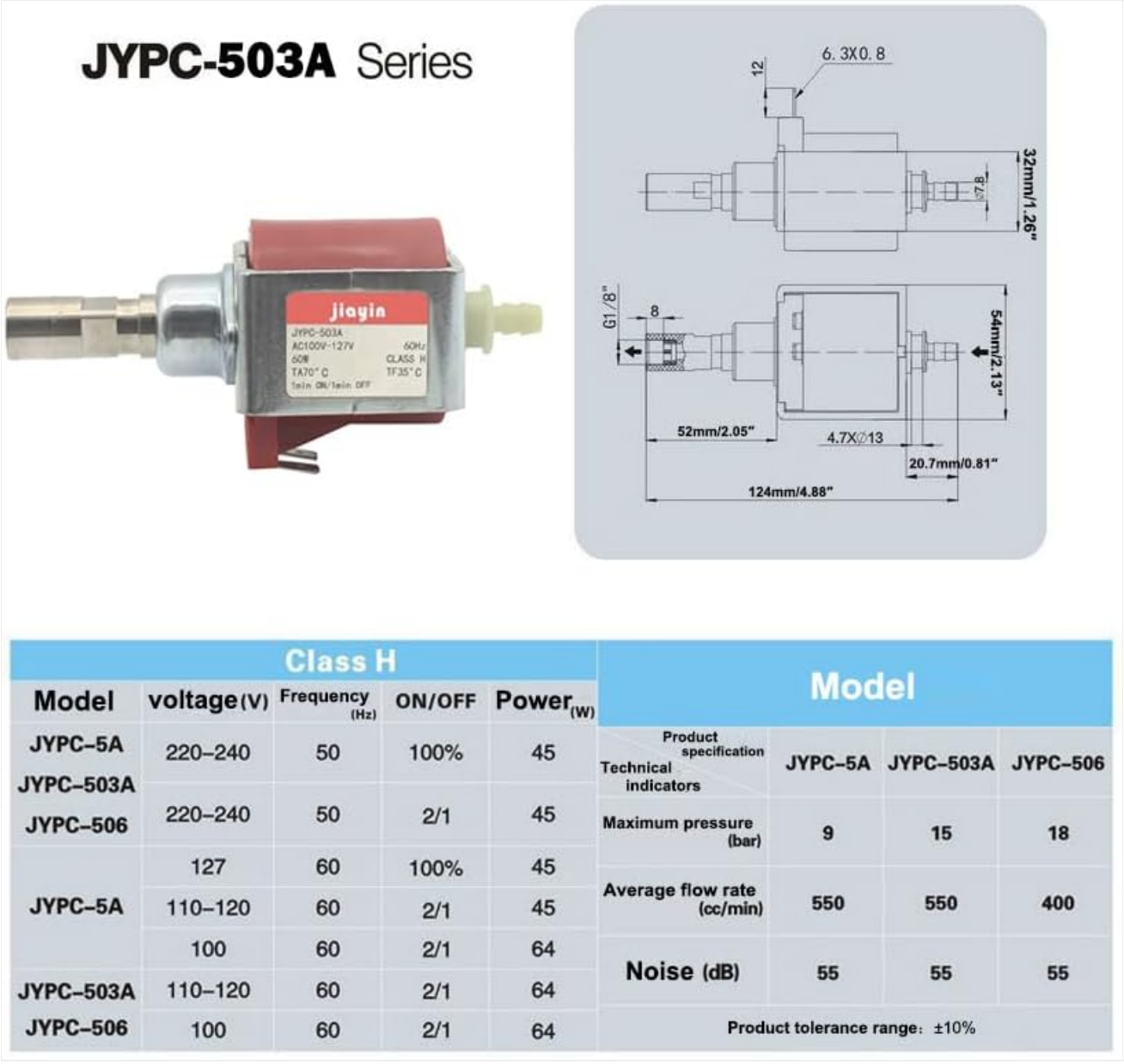


Figure 3.2: Side view of the pump, highlighting the electrical connection terminals.

4. Technical Specifications

The following table details the technical specifications for the JIAYIN JYPC-503A pump:

Parameter	Value
Model Number	JYPC-503A
Type	Miniature Electromagnetic Pump Valve
Rated Voltage	AC 110V - 120V
Frequency	60Hz
Power	60W
Working Pressure	15 bar
Working Medium	Water or non-corrosive liquid
Fluid Temperature (Tf)	Max 35°C
Ambient Temperature (TA)	Max 70°C
Duty Cycle	1 min ON / 1 min OFF (Intermittent)
Dimensions (L x W x H)	4.88" x 2.13" x 1.26" (124mm x 54mm x 32mm)
Connection Method	Cannula (inlet), Copper Pipe (outlet)



Class H				
Model	voltage(V)	Frequency (Hz)	ON/OFF	Power(W)
JYPC-5A	220-240	50	100%	45
JYPC-503A				
JYPC-506	220-240	50	2/1	45
JYPC-5A	127	60	100%	45
	110-120	60	2/1	45
	100	60	2/1	64
JYPC-503A	110-120	60	2/1	64
JYPC-506	100	60	2/1	64

Model			
Product specification / Technical indicators	JYPC-5A	JYPC-503A	JYPC-506
Maximum pressure (bar)	9	15	18
Average flow rate (cc/min)	550	550	400
Noise (dB)	55	55	55
Product tolerance range: ±10%			

Figure 4.1: Technical diagram showing dimensions and a comparison table for JYPC-503A and related models.

5. Installation

Proper installation is crucial for the pump's performance and longevity. Consult the appliance's service manual for specific integration instructions.

1. **Mounting:** Securely mount the pump in the designated location within the appliance. Ensure it is stable and free from excessive vibration.
2. **Fluid Connections:**
    - **Inlet:** Connect the water supply line to the cannula inlet port. Ensure a tight, leak-free connection. The flow test method specifies a 13.8-inch silicon tube with an outer diameter of 0.28 inches and an inner diameter of 0.146 inches for connection to the water inlet port.
    - **Outlet:** Connect the copper pipe outlet to the appliance's internal water system.



Figure 5.1: Rear view of the pump, illustrating the copper pipe outlet connection.

3. **Electrical Connections:** Connect the pump's electrical terminals to the appliance's power supply circuit. Ensure correct polarity and secure connections. Refer to the appliance's wiring diagram. The pump operates on AC 110V - 120V, 60Hz.
4. **Leak Check:** After all connections are made, perform a thorough leak check before fully reassembling the appliance and applying power.

6. Operating Instructions

The JIAYIN JYPC-503A pump is typically controlled by the appliance it is integrated into. Its operation is generally automatic once the appliance is activated.

- **Power On:** Ensure the appliance is connected to a suitable power source.
- **Fluid Supply:** Verify that there is an adequate supply of the working medium (water or non-corrosive liquid) to the pump's inlet.
- **Activation:** The pump will activate when the appliance's control system signals it to operate, typically to draw fluid for brewing, steaming, or spraying.
- **Duty Cycle:** Note the intermittent duty cycle of 1 minute ON / 1 minute OFF. This is important for preventing overheating and ensuring pump longevity.

7. Maintenance

Regular maintenance helps ensure the pump's optimal performance and extends its lifespan.

- **Cleaning:** Periodically inspect the pump and its connections for any signs of mineral buildup or debris. Clean gently with a soft cloth. Do not use harsh chemicals.
- **Inlet Filter (if applicable):** If the appliance has an inlet filter, clean or replace it as per the appliance's instructions to prevent clogging of the pump.
- **Leak Inspection:** Regularly check all fluid connections for leaks. Tighten connections if necessary.
- **Electrical Connections:** Ensure electrical connections remain secure and free from corrosion.

Caution: Always disconnect power to the appliance before performing any maintenance.

8. Troubleshooting

If the pump is not functioning correctly, refer to the following common issues and solutions. For complex problems, consult a qualified service technician.

Problem	Possible Cause	Solution
Pump does not operate	No power supply Faulty electrical connection Pump failure	Check power to the appliance. Verify electrical connections are secure. Consult a technician for pump replacement if necessary.
Low or no fluid flow	Clogged inlet/outlet Insufficient water supply Air in the system Pump wear	Check for blockages in lines and pump ports. Ensure adequate fluid source. Bleed air from the system if applicable. Consider pump replacement.
Unusual noise or vibration	Loose mounting Debris in pump Pump malfunction	Securely mount the pump. Inspect for foreign objects (disconnect power first). Contact a service technician.
Leakage	Loose connections Damaged seals/hoses Cracked pump housing	Tighten all fluid connections. Replace damaged seals or hoses. Replace the pump if housing is cracked.

9. Warranty and Support

As an OEM part, the warranty for the JIAYIN JYPC-503A pump is typically covered by the warranty of the appliance it is installed in. Please refer to the warranty information provided with your specific appliance.
For technical support or inquiries regarding this pump, please contact the manufacturer of your appliance or the original seller. Ensure you have the pump's model number (JYPC-503A) and any relevant appliance information available when seeking assistance.

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