

ZHRCLY 32YCY14-1B

ZHRCLY QIDONG High Pressure Axial Piston Pump 32YCY14-1B Instruction Manual

Model: 32YCY14-1B

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your ZHRCLY QIDONG High Pressure Axial Piston Pump, model 32YCY14-1B. Please read this manual thoroughly before using the pump to ensure proper function and to prevent damage or injury.

The ZHRCLY QIDONG axial piston pump is designed for high-pressure hydraulic applications, offering reliable performance and durability. Adherence to the guidelines in this manual will help extend the lifespan of your equipment and maintain optimal performance.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in serious injury, death, or equipment damage.

- Always ensure the pump is disconnected from power and hydraulic pressure is relieved before performing any maintenance or adjustments.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective clothing, when working with hydraulic systems.
- Do not exceed the maximum operating pressure specified for the pump.
- Ensure all connections are secure and leak-free before operating the pump. High-pressure fluid leaks can cause severe injury.
- Only qualified personnel should install, operate, or service this equipment.
- Keep hands and clothing clear of moving parts during operation.
- Dispose of hydraulic fluids and waste materials according to local environmental regulations.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your axial piston pump. Follow these steps carefully:

1. **Unpacking and Inspection:** Carefully remove the pump from its packaging. Inspect for any visible damage that may have occurred during transit. Report any damage to the supplier immediately.
2. **Mounting:** Mount the pump securely to a rigid, vibration-free surface using appropriate fasteners. Ensure proper alignment with the drive shaft to prevent premature wear.
3. **Hydraulic Connections:** Connect the suction and pressure lines according to your system's hydraulic schematic. Use appropriate fittings and ensure all connections are tight to prevent leaks. The suction line should be as short and straight as possible to minimize pressure drop.
4. **Fluid Filling:** Fill the hydraulic reservoir with the recommended hydraulic fluid to the appropriate level. Ensure the fluid is clean and free of contaminants.
5. **Priming the Pump:** Before initial startup, it is essential to prime the pump to prevent dry running. Consult your system's specific priming procedure. This typically involves filling the pump casing with hydraulic fluid and bleeding air from the system.
6. **Electrical Connections:** If applicable, connect the pump's control wiring according to the electrical schematic. Ensure all electrical work is performed by a qualified electrician and complies with local codes.

Note: This manual covers the 32YCY14-1B model. If you require a different model (e.g., 10YCY14-1B, 16YCY14-1B, 25YCY14-1B, 40YCY14-1B, 63YCY14-1B, 80YCY14-1B, 100YCY14-1B), please ensure you have selected the correct product. For models not listed or further assistance, contact the merchant.



Figure 1: General view of a ZHRCLY QIDONG High Pressure Axial Piston Pump. This image illustrates the typical appearance of the pump, showing its robust construction and connection points.

4. OPERATING INSTRUCTIONS

Once the pump is properly installed and primed, follow these steps for safe operation:

1. Pre-Operation Checks:

- Verify hydraulic fluid level.
- Check all connections for leaks.
- Ensure all safety guards are in place.

2. **Initial Startup:** Start the prime mover (motor or engine) at a low speed. Gradually increase speed while monitoring pressure gauges and listening for unusual noises.

3. **Air Bleeding:** If the system contains air, it may cause erratic operation or noise. Slowly open bleed valves (if present) at high points in the system until air-free fluid emerges, then close them.

4. **Pressure Adjustment:** Adjust the system pressure to the required operating level using the appropriate pressure relief valves. Do not exceed the pump's maximum rated pressure.

5. **Monitoring:** Continuously monitor the pump and system for unusual vibrations, noise, temperature increases, or leaks during operation.

6. **Shutdown:** To shut down, gradually reduce system pressure and then turn off the prime mover.

5. MAINTENANCE

Regular maintenance is essential for optimal performance and extended service life. Always ensure the pump is depressurized and isolated from power before performing any maintenance.

- **Fluid Quality:** Regularly check the hydraulic fluid for contamination and degradation. Replace fluid according to manufacturer recommendations or if it appears discolored or contains particles. Use only recommended fluid types.
- **Filter Replacement:** Replace hydraulic filters at recommended intervals to prevent contaminants from damaging the pump and other system components.
- **Leak Checks:** Periodically inspect all hydraulic lines, fittings, and seals for leaks. Address any leaks promptly to prevent fluid loss and potential safety hazards.
- **Mounting Security:** Check pump mounting bolts for tightness. Vibrations can loosen fasteners over time.
- **Shaft Seal Inspection:** Inspect the shaft seal for signs of wear or leakage. Replace if necessary.
- **Cleaning:** Keep the exterior of the pump clean to ensure proper heat dissipation and to easily spot leaks.

6. TROUBLESHOOTING

This section outlines common issues and potential solutions. For complex problems, consult a qualified hydraulic technician.

Problem	Possible Cause	Solution
No pressure or low pressure	<ul style="list-style-type: none">• Low fluid level• Air in the system• Clogged suction filter• Faulty relief valve• Pump not primed	<ul style="list-style-type: none">• Add fluid• Bleed air from system• Clean/replace filter• Inspect/replace valve• Prime pump

Problem	Possible Cause	Solution
Excessive noise/vibration	<ul style="list-style-type: none"> • Air in the system (cavitation) • Misalignment of pump/motor • Worn bearings • Loose mounting bolts 	<ul style="list-style-type: none"> • Bleed air • Check alignment • Service pump • Tighten bolts
Overheating	<ul style="list-style-type: none"> • Low fluid level • Contaminated fluid • Clogged cooler • Excessive system pressure 	<ul style="list-style-type: none"> • Add fluid • Replace fluid/filters • Clean cooler • Adjust pressure
Fluid leakage	<ul style="list-style-type: none"> • Loose fittings • Damaged seals/gaskets • Cracked housing 	<ul style="list-style-type: none"> • Tighten fittings • Replace seals/gaskets • Replace pump (if housing cracked)

7. SPECIFICATIONS

The following specifications apply to the ZHRCLY QIDONG High Pressure Axial Piston Pump, model 32YCY14-1B:

- **Model Number:** 32YCY14-1B
- **Manufacturer:** Original factory
- **Item Weight:** 20 pounds (approx. 9.07 kg)
- **Product Dimensions:** 1 x 1 x 1 inches (approx. 2.54 x 2.54 x 2.54 cm) -*Note: These dimensions may represent packaging or a placeholder. Refer to technical drawings for precise pump dimensions.*
- **Condition:** New
- **ASIN:** B0F9LFM3YN
- **Date First Available:** August 24, 2024
- *Further technical specifications (e.g., displacement, maximum pressure, speed range) should be obtained from the product's technical data sheet.*

8. WARRANTY AND SUPPORT

For specific warranty information, terms, and conditions related to your ZHRCLY QIDONG High Pressure Axial Piston Pump, please refer to the documentation provided at the time of purchase or contact your authorized dealer or the merchant directly.

If you encounter any issues that cannot be resolved using the troubleshooting guide, or if you require technical assistance, please contact the seller or manufacturer's support team. When contacting support, please have your model number (32YCY14-1B) and purchase details readily available.

For inquiries regarding other available models or general accessories, please reach out to the merchant.

