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Seapple 4286404 4328226 4373201

Seapple Swing Motor Relief Valve Instruction Manual

Models: 4286404, 4328226, 4373201

1. Introduction

This instruction manual provides essential information for the Seapple Swing Motor Relief Valve, designed for use in various Hitachi Excavator models. It details product specifications, compatibility, and important considerations for installation and maintenance. Please read this manual thoroughly before installation or operation to ensure proper function and safety.

2. Product Description

The Seapple Swing Motor Relief Valve is a critical component in hydraulic systems, regulating pressure to ensure the smooth and controlled operation of the swing motor in compatible excavators. This valve is supplied in new condition and is identified by part numbers 4286404, 4328226, and 4373201.

3. Specifications

- **Part Name:** Swing Motor Relief Valve
- **Condition:** New
- **Part Numbers:** 4286404, 4328226, 4373201
- **Manufacturer:** Seapple
- **ASIN:** B0CMXTZ19G
- **Date First Available:** November 8, 2023

4. Compatibility

This Swing Motor Relief Valve is compatible with the following Hitachi Excavator models:

- EX100-2
- EX120-2
- EX100-3
- EX120-3
- EX100-5
- EX120-5

- EX135UR
- EX140US-5
- ZX125W

Important: Always confirm compatibility by matching the part number with your existing component or the manufacturer's specifications. Do not rely solely on the model number for verification.

5. Installation and Setup

Installation of hydraulic components like the Swing Motor Relief Valve requires specialized knowledge and tools. It is strongly recommended that installation be performed by a qualified technician or professional mechanic.

1. **Safety First:** Ensure the excavator is powered off, hydraulic pressure is relieved, and appropriate safety measures are in place before beginning any work.
2. **Refer to Excavator Manual:** Consult the specific service manual for your Hitachi Excavator model for detailed instructions on accessing, removing, and installing the swing motor relief valve.
3. **Part Verification:** Before installation, visually compare the new relief valve with the old one and verify that the part numbers match.
4. **Cleanliness:** Maintain a clean work environment to prevent contamination of the hydraulic system.
5. **Proper Torque:** Ensure all connections are tightened to the manufacturer's specified torque values to prevent leaks and ensure secure fitting.
6. **System Bleeding:** After installation, follow the excavator manufacturer's procedure for bleeding the hydraulic system to remove any trapped air.
7. **Leak Check:** Start the excavator and carefully check for any hydraulic fluid leaks around the newly installed valve.

6. Operation

Once correctly installed, the Swing Motor Relief Valve operates automatically as part of the excavator's hydraulic system. Its function is to limit the maximum pressure within the swing motor circuit, protecting components from overpressure and ensuring smooth swing movements. No direct user interaction is required for its operation.

7. Maintenance

The Swing Motor Relief Valve is designed for durability and reliability. Regular maintenance typically involves:

- **Visual Inspection:** Periodically inspect the valve and surrounding hydraulic lines for any signs of leaks, corrosion, or physical damage.
- **Hydraulic Fluid Quality:** Ensure the hydraulic fluid in the excavator is clean and maintained according to the manufacturer's recommendations. Contaminated fluid can impair valve function.
- **System Checks:** Adhere to the excavator's recommended service schedule for hydraulic system checks and fluid changes.

If any issues are suspected with the relief valve, consult a qualified technician.

8. Troubleshooting

If you experience issues related to the swing motor's operation, such as erratic movement, slow response, or unusual noises, the relief valve may be a contributing factor. Common troubleshooting steps include:

- **Check for Leaks:** Inspect the valve and connections for external hydraulic fluid leaks.

- **System Pressure Test:** A qualified technician can perform a hydraulic pressure test to verify if the relief valve is opening at the correct pressure setting.
- **Fluid Contamination:** Check the hydraulic fluid for signs of contamination or degradation.

Do not attempt to disassemble or repair the relief valve yourself unless you are a trained professional. Incorrect adjustments or repairs can lead to system failure or injury.

9. Important Notes

- Provide a physical address (home or office) for delivery, not a P.O. box address.
- Always confirm the correct part number for your machine. Do not rely solely on the model number for compatibility.
- To avoid unnecessary returns, carefully check the product picture and part number to ensure it is the correct component for your needs.
- If you are unsure about compatibility, please find your engine model series number or product part number and model number, and contact the supplier for confirmation before purchasing.

10. Warranty Information

This Seapple Swing Motor Relief Valve comes with a**6-month warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects under normal operating conditions. It does not cover damage due to improper installation, misuse, neglect, or unauthorized modifications.

11. Support and Contact

For technical assistance, compatibility questions, or warranty inquiries, please contact Seapple customer support through the retailer where the product was purchased. You may also visit the official Seapple store for more information: Seapple Store on Amazon.

12. Product Images



Figure 1: Main view of the Seapple Swing Motor Relief Valve. This image shows the overall cylindrical shape and the threaded sections of the valve.



Figure 2: Side view of the relief valve, highlighting the precision-machined threads and O-rings for a secure, leak-free fit within the hydraulic system.



Figure 3: Angled view of the relief valve, illustrating the various ports and internal components visible on the valve body, crucial for hydraulic fluid flow.



Figure 4: Another angled perspective of the relief valve, showcasing the hexagonal fitting at one end, designed for easy installation and removal with a wrench.



Figure 5: Top-down angled view of the relief valve, providing a clear look at the top cap and the overall robust construction of the component.

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