

JJCEQBPE KC-03

Hydraulic Throttle Control Valve User Manual

Model: KC-03

PRODUCT OVERVIEW

The JJCEQBPE Hydraulic Throttle Control Valve is designed for precise control in hydraulic systems. This manual provides essential information for the installation, operation, and maintenance of the KC-03 model, as well as the KC-02 and KC-04 variants.



Figure 1: JJCEQBPE Hydraulic Throttle Control Valve. This image displays the KC-02 variant of the valve, which is similar in design to the KC-03. It features a black body with a blue adjustment knob on top. Markings on the valve body indicate "KC-02", "1/4", and an arrow with "3000 PSI" indicating flow direction and pressure rating.

SPECIFICATIONS

| Attribute | Detail |
|---------------------------|---------------------------|
| Brand | JJCEQBPE |
| Model (KC-03) | 3/8" D10 |
| Model (KC-02) | 1/4" DN8 |
| Model (KC-04) | 1/2" DN15 |
| Item Weight | 7.1 ounces |
| Package Dimensions | 1.18 x 0.79 x 0.39 inches |
| Assembly Required | No |
| Number of Pieces | 1 |

SAFETY INFORMATION

Always observe standard safety precautions when working with hydraulic systems. Ensure the system is depressurized before installation or maintenance. Wear appropriate personal protective equipment (PPE).

- Do not exceed the maximum rated pressure of the valve.
- Ensure proper sealing to prevent leaks.
- Consult a qualified professional if unsure about installation or operation.

SETUP AND INSTALLATION

- Preparation:** Ensure the hydraulic system is clean and free of debris. Verify that the valve model (KC-02, KC-03, or KC-04) matches the system's requirements for port size (1/4", 3/8", or 1/2" respectively).
- Orientation:** Identify the flow direction indicated by the arrow on the valve body. Install the valve so that the fluid flows in the correct direction.
- Connection:** Use appropriate fittings and sealants (e.g., PTFE tape or liquid sealant) to connect the valve securely into the hydraulic line. Tighten connections to recommended torque specifications to prevent leaks, but do not overtighten.
- Mounting (if applicable):** If the valve requires mounting, secure it using appropriate fasteners to a stable surface, ensuring it is not subjected to excessive vibration or stress.
- System Check:** After installation, slowly pressurize the system and carefully check for any leaks around the valve connections.

OPERATING INSTRUCTIONS

The throttle control valve is designed to regulate the flow rate of hydraulic fluid. The blue knob on top of the

valve is used for adjustment.

- **Flow Adjustment:** Rotate the blue knob clockwise to decrease the flow rate and counter-clockwise to increase the flow rate. Make small adjustments and observe the system's response.
- **Fine Tuning:** For precise control, turn the knob slowly and incrementally until the desired flow rate is achieved.
- **Monitoring:** Continuously monitor system pressure and flow to ensure operation within safe and specified limits.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your hydraulic throttle control valve.

- **Inspection:** Periodically inspect the valve for any signs of external damage, corrosion, or leaks.
- **Cleaning:** Keep the exterior of the valve clean. Avoid using harsh chemicals that could damage the valve material or seals.
- **Seal Replacement:** If leaks occur from the valve body or around the adjustment knob, it may indicate worn seals. Consult the manufacturer's guidelines or a qualified technician for seal replacement.
- **Fluid Quality:** Ensure the hydraulic fluid used in the system is clean and of the correct type, as contaminants can affect valve performance and lifespan.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---------------------------------|---|---|
| Fluid Leakage | Loose connections, damaged seals, cracked valve body. | Tighten connections, replace seals, replace valve if body is cracked. |
| Incorrect Flow Rate | Improper adjustment, internal blockage, worn internal components. | Adjust knob, check for contaminants, consider valve replacement. |
| Valve Stuck/Difficult to Adjust | Contamination, corrosion, mechanical damage. | Clean valve, lubricate (if applicable), replace if damaged. |

If troubleshooting steps do not resolve the issue, contact a qualified hydraulic technician or the manufacturer for assistance.

WARRANTY AND SUPPORT

For information regarding product warranty or technical support, please refer to the manufacturer's official website or contact their customer service department. Keep your purchase receipt as proof of purchase.

Manufacturer: JJCEQBPE

Note: Specific warranty terms and support contact details may vary.

