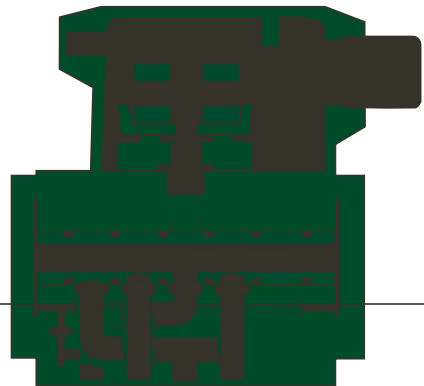


631 Series Installation and Operation Instruction

Electrohydraulic Servovalve



7. TROUBLESHOOTING CHART

The following troubleshooting chart lists potential troubles encountered, probable causes, and remedies.

Potential Trouble	Probable Cause	Remedy
Servo valve does not follow input command signal. (Actuator or components are stationary or creeping slowly.)	Plugged filter element.	Replace filter element.
High threshold. (Jerky, possible oscillatory)	Plugged filter element.	Replace filter element.
Poor response. (Servo valve output lags electrical command signal).	Partially plugged filter element.	Replace filter element.
High Null Bias. (High input current required to maintain hydraulic cylinder or motor stationary.)	1. Incorrect null adjustment. 2. Partially plugged filter element.	1. Readjust null 2. Replace filter element and check for dirty hydraulic fluid in system.



Table 1. Replacement Parts

Part Description	Part Number
631 Series Maintenance Kit	B52555RK200K001

Tools and Equipment

- a. 3mm Allen wrench
- b. Torque wrench

- a. Remove the four socket head cap screws and lockwashers with 3mm Allen wrench.
- b.
- c.
- d.
- e.

9. AUTHORIZED REPAIR FACILITIES

Moog does not authorize any facilities other than Moog or Moog subsidiaries to repair its servo valves. It is recommended you contact Moog at (716) 652-2000 to locate your closest Moog repair facility. Repair by an independent (unauthorized) repair house will result in voiding the Moog warranty and could lead to performance degradation or safety problems.

NOTES

1 Fluid:

Industrial type petroleum base

2 Operating Temperature Range:

-20°F [-29°C] to +275°F [+135°C]

3 Valve Phasing:

Flow out port B results when:

Series coils: B & C connected, A+, D-;

Parallel coils: A & C connected, B & D connected, A+, D-.

4 Surface:

Surface to which valve is mounted requires $\sqrt[32]{\Delta\Delta}$ within 0.001 [0.03] TIR

5 Null Adjust:

Flow out Port A results with clockwise key).

6 Mounting Manifold:

Must conform to ISO 4401-05-05-0-94*

*Note: Location of X port in valve body does not correspond to ISO standards.

7 Mounting Bolts:

(Socket Head Cap Screws)

