

Hydraulic Power Unit - User Manual

I. Operating Instructions

Connect the hydraulic power unit to the cylinder using clean oil pipes, following the hydraulic schematic.

Correctly connect the power supply according to the voltage type (AC or DC) shown on the motor and solenoid valve labels.

Briefly start (jog) the motor and check for any abnormal conditions. With no load applied, run the motor idle and make sure all parts operate smoothly. Once verified, gradually apply load until normal operation is reached.

II. Safety Precautions

The system pressure is preset at the factory. If adjustment is necessary, use the pressure regulating valve knob, but do not exceed the rated pressure.

Check motor and solenoid valve wiring carefully. Loose or incorrect connections are prohibited.

During installation, make sure the oil tank has sufficient oil. After one work cycle, top up the oil if needed, but avoid overfilling.

Ensure the power type (AC or DC) matches the labels. For AC motors, the housing must be properly grounded. Do not operate without grounding. Protect the motor junction box from water and moisture. When first wiring, jog the motor to confirm correct rotation direction. Reverse rotation or running without oil is forbidden.

Always use filtered hydraulic oil with a filtration level of 25 μm or finer when filling the tank.

The power unit cannot remove impurities from the cylinder. Ensure the inside of the cylinder and oil pipes are clean to prevent valve failure.

III. Maintenance and Care

Keep actuators and pipelines clean to prevent dirt from entering the system.

Maintain oil levels in the tank. Refill as needed after work cycles. If the pump draws in air, it can damage the pump and seals.

After the first 100 hours of operation with new oil, replace the oil. Afterwards, replace the oil once a year (around every 1,500 working hours).

Use high-viscosity hydraulic oil in hot environments and low-viscosity hydraulic oil in cold environments.