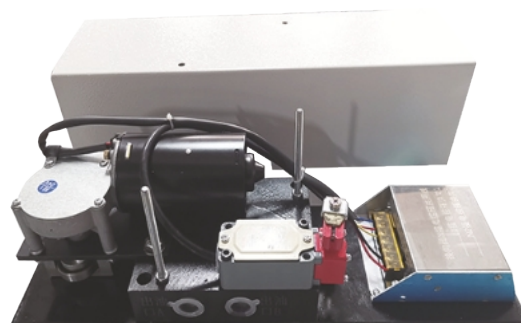


SAV 2-position 4-way Directional Valve

The SAV type 2-position 2-way directional valve uses a DC motor to drive the valve core to move. It is an integrated reversing control device that opens and closes the oil supply pipeline or switches the oil supply direction. Even under harsh working conditions (Such as low temperature or high viscosity grease), the action is still quite reliable. This valve is suitable for use in dry and thin oil centralized lubrication systems with nominal pressures below 40MPa and in main branch pipelines of hydraulic systems. It can also be used in three types: 2-position 4-way, 2-position 3-way and 2-position 2-way.

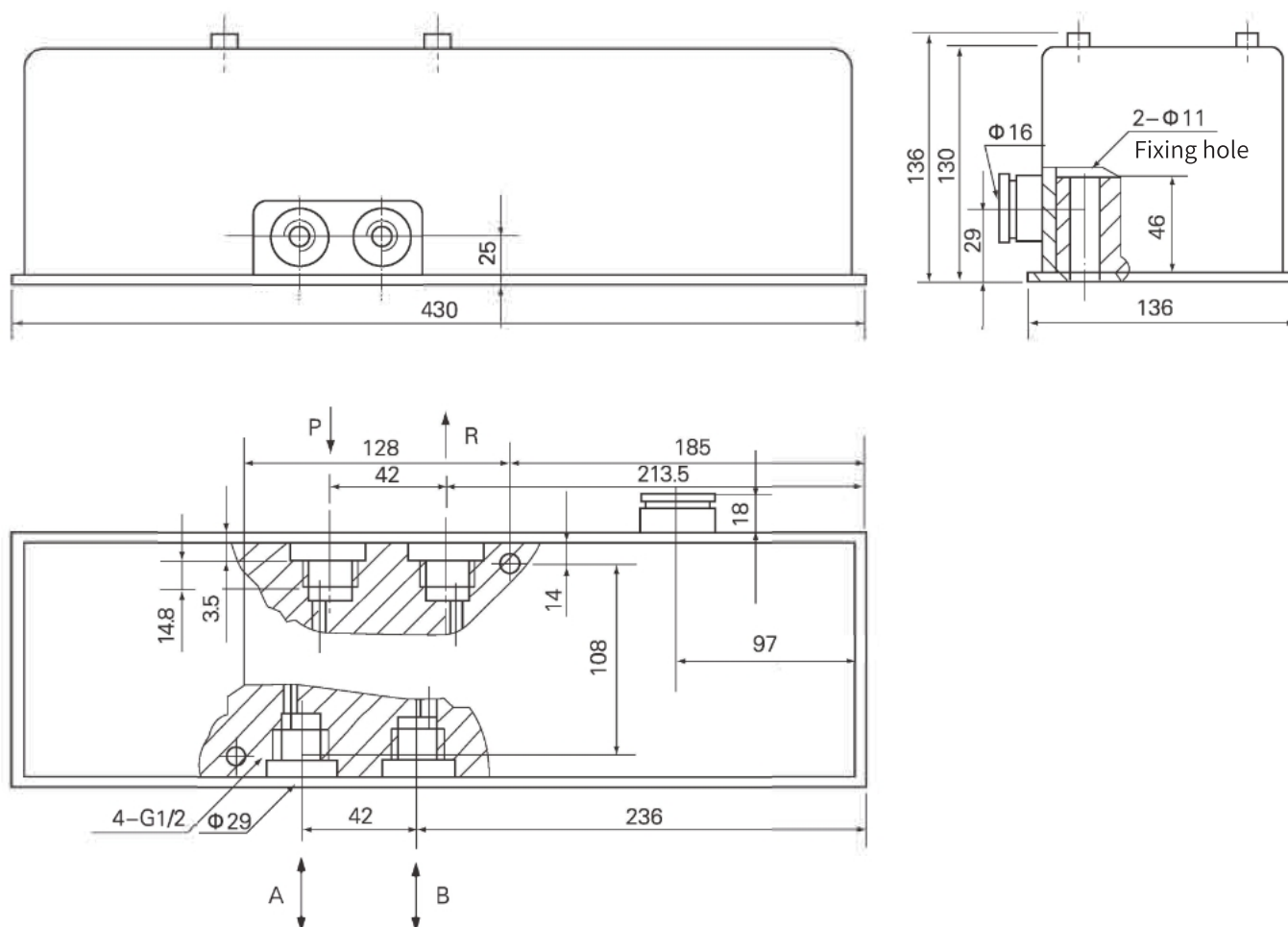


Specification

Model	Pressure	Reversing time	Motor power	Voltage	Motor torque	Weight
SAV11A00	40 MPa	0.5 S	40 W	220VAC	20 N.M	13kg
SAV24A00				24VDC		

Use Grease NLGI 0#~3# or Oil with a viscosity greater than N68, environment temperature -20°C ~ +80°C.

Dimension

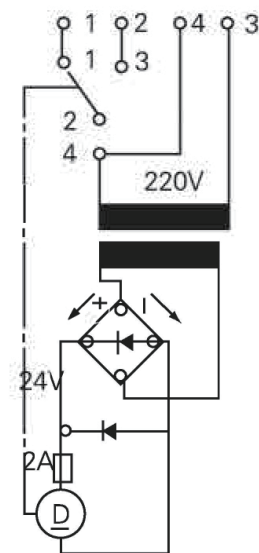
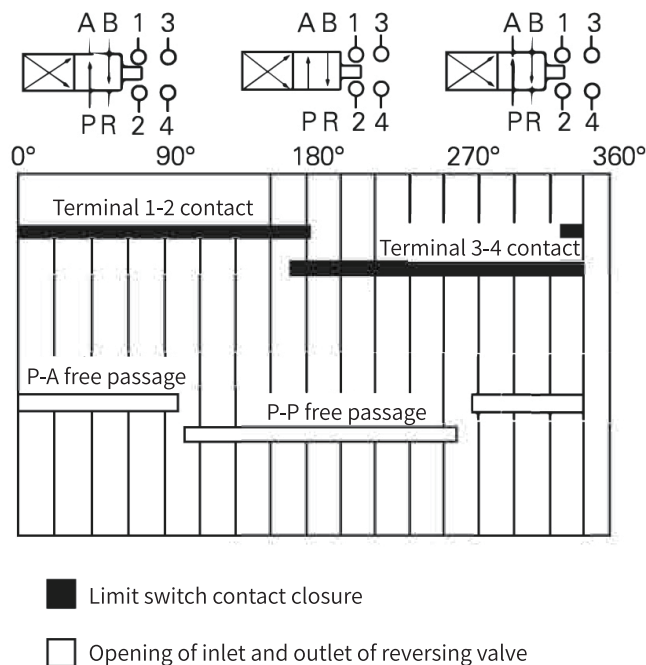


SAV 2-position 4-way Directional Valve

Working Principle

The valve is mainly composed of DC motor, limit switch, reversing valve body, rectifier transformer device and other components installed on the same base plate and placed in a protective cover.

The electric control box in the system sends out a reversal signal (sent by the differential pressure switch at the end of the system) to cause the DC motor to rotate and drive the valve core to make linear reciprocating motion through the eccentric. When the valve core reaches the required reversing position from the original position, the baffle at the end of the valve core triggers the limit switch, sends an electrical signal to the electric control box, and orders the DC motor to stop rotating, completing the reversing process.



Instructions

1. The valve should be installed at the front end of the controlled main and branch pipelines of the system, and should be located in a ventilated, dry, easy-to-inspect location where there is no interference from moving mechanisms around it.
2. When used as a 2-position 2-way, the oil outlet "B" and oil return port "R" must be blocked.
3. When used as a two-position three-way, the oil outlet "B" must be blocked.
4. Connect the electronic control wiring according to the principle shown in the figure above.

Troubleshooting

1. No reversing work.

There may be no commutation signal input to the motor, the welding pins have fallen off, the motor shaft and eccentric wheel are loose and not tightened, impurities have entered the valve cavity and the sliding core is stuck, etc. These reasons can be identified and eliminated.

2. Oil leaks from both ends of the sliding core.

It is mainly caused by damage to the sealing rings at both ends. It may be that the sealing rings have been in stock for a long time or have aged after being used for a long time. Just replace the sealing rings.