



Hydraulic valve test bench meet various tests of PTU selection valve, fire cut-off valve, priority valve, self-pressurization priority valve and other kinds of hydraulic valve, such as pressure test, opening pressure test and reset pressure test, the whole flow pressure test, pressure drop test, reverse pressure drop test, leak test, pressure drop (rise) response in response (rapid traffic) test, test, PTU selector valve performance test, the fire shut-off valve performance test, the lap joint resistance, insulation resistance testing, etc.

The test bench adopts a platform design. Users can customize the test process according to the test requirements and characteristics of different hydraulic valves. The hardware and software design of the measurement and control system supports manual and automatic modes. Users can perform manual tests through the knobs, switches, etc. System parameter configuration and automatic testing can be performed through a computer, and a printed test report can be automatically issued.

Basic indicators:

- Hydraulic circuit: 2 for 2 times;

- Oil supply pressure range: 150-5000PSI; 30-3000PSI;
- Oil medium: red oil or purple oil;
- Flow measurement: 0.002-2 L/Min; 1-250L/Min;
- Solenoid valve power supply module: 0VDC~50VDC, continuous adjustable, accuracy: ± 0.25 VDC;
- Filtration accuracy: 2 μ ;
- Pollution level: Applicable to SAE AS4059 Level 5.

The continuous working time of the device is not less than 24 hours, and the overall average trouble-free time is not less than 10000 hours.

Sensor accuracy requirements:

- Pressure sensor (oil) system: range 30MPa, accuracy is not less than $\pm 0.3\%$ FS;
- Pressure sensor (oil return) system: measuring range 2MPa, accuracy is not less than $\pm 0.3\%$ FS;
- Pressure sensor (pressure) system: range 35MPa, accuracy is not less than $\pm 0.3\%$ FS;
- Flow sensor (large flow) system: range 45GPM, accuracy is not less than $\pm 0.3\%$;
- Flow sensor (small flow) system: range 50mL /min, accuracy is not less than $\pm 0.3\%$;
- Temperature sensor system: $-20^{\circ}\text{C}\sim 100^{\circ}\text{C}$, accuracy: $\pm 0.5^{\circ}\text{C}$.