

Pressure Switch Test Bench

Testing of Various hydraulic & pneumatic pressure switches is performed using pressure switch test bench. Endurance test of these switches are done by this test bench, too. A data acquisition system monitors and reports test data automatically. Three hydraulic and one pneumatic lines in various pressure ratings provide wide range of testing condition.



Features

Operating Fluid	MIL-PRF-5606
Electrical Supply	AC, 3 Ph, 380 V, 50 Hz, 16 A
Hydraulic Power	3 kW, 4500 psi
Hydraulic Pressure Ranges	4500, 1500 & 500 psi
Pneumatic Pressure Range	100 psi
Working Fluid Temperature Range	0 to 80 °C
Pressure Transducer Accuracy	±0.1 % FS
Working Fluid Temperature Accuracy	±1 % FS
Filtration	10 µ
Cooling System Requirement	Cold water @ 5 gpm, 20 °C
Data Acquisition	Siemens PLC
Dimensions	1.6 m Width × 1.2 m Depth × 2.2 m Height

Electro Hydraulic Servo Valve Test Bench

Electro Hydraulic Servo Valve Tester is designed to provide automated, semi-automated and manual testing of a wide range of aerospace and industrial electro hydraulic servo and proportional valves and associated components.



Features

Standard Specifications	SAE-ARP 490
Electrical Supply	AC, 3 Ph, 380 V, 50 Hz, 50 A
Hydraulic Power	15 kW, 3200 psi, 8 gpm
Cooling System	Cold water @ 25 gpm, 20 °C
Operating Fluid	MIL-PRF-5606
Filtration	5 µ on All three lines

Instrumentation

Pressure	10 × 0 ~ 3500 psi + 2 × 0 ~ 3500 (Acc. ±0.1 % FS)
Flow	0 ~ 5 gpm + 0 ~ 1 gpm (Acc. ±0.5 % FS)
Command	±150 mA (Acc. ±0.1 % FS) Steady, Sinus, Ramp, Step, Chirp, Pulse, Random
Feedback Displacement	10 mm (Acc. ±1 % FS)
Temperature	0 ~ 120 °C (Acc. ±1 % FS)
Data Acquisition	BECKHOFF, 32 AI channels, 10 MS/s
Dimensions	3.6 m Width × 1.9 m Depth × 2.1 m Height

Static Performance Tests

Flow Characteristics
Pressure Characteristics
Null Characteristics
Internal Leakage
Threshold Characteristics
Hysteresis

Dynamic Performance Tests

Frequency Response
Amplitude Ratio
Phase Lag