

Accredited under ISO 17025 Standards. Testing methods conform to industry standard specifications including SAE, ASME, ANSI, FMVSS/CMVSS and MIL-STD



CLARK
Testing Services, LLC
A Division of Clark Testing Group

Clark Testing Services Hydraulic-Pneumatic Testing



Hydraulic-Pneumatic Testing



Clark Testing Services has been active in testing hydraulic-pneumatic components and systems for over 50 years. Products tested range from automotive fuel filters to 15 inch diameter hydraulic actuators. A large selection of equipment, instrumentation, and test benches are available to support your testing program. Component performance can be evaluated over a temperature range of -346°F to + 600°F.



Capabilities

CTS provides start-to-finish services for product development, for process development, and troubleshooting.

- Powertrains
- Hydraulics
- Noise and Vibration
- Structures
- Field Data Acquisition
- Environmental

Hydraulic-Pneumatic Testing

- Actuators:
proof pressure, burst, piston drag, cyclic (stroke) endurance, and impulse endurance
- Valves:
performance and durability
- Oil Coolers/Heat Exchangers:
pressure drop, proof pressure, burst, and/or shock
- Accumulators (piston and bladder):
proof pressure, burst, impulse endurance, and performance
- Cylinder Rod Seals and Wipers:
endurance per SAE J1374
- Hoses, Tubing and Fittings:
proof pressure, burst, and impulse endurance
- Pumps and Motors:
performance and durability
- System Simulation:
field duty cycles, accelerated testing, and failure analysis
- System Evaluation:
on-vehicle performance, prototype testing, efficiency studies, and lubrication studies

Above testing can be combined with thermal cycling

Hydraulic-Pneumatic Test Equipment

- Hydraulic Power Supplies With:
Flows to 400 gpm, fluid temperatures to 300°, pressures to 30K psi static, and 16K psi dynamic
- Thermal Chambers With:
temperature range from +600°F to -346°F
humidity to 95-100%
multiple chamber sizes to 10 ft. x 10 ft. x 12 ft.
or customize to your needs
- Electrohydraulic fatigue testing systems
- Rotary actuators with capacity to $\pm 250,000$ lbf-ft and $\pm 50^\circ$ rotation
- Linear actuators with capacity to 400,000 lbf
- Large assortment of pressure, flow, torque, speed, load, temperature, displacement, and acceleration transducers



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