

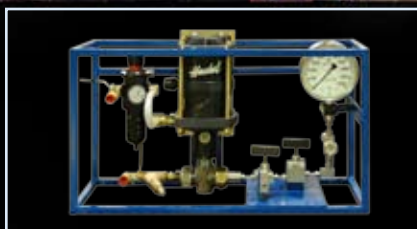


- **PRESSURE, VACUUM & LEAK TESTING**
- **HIGH PRESSURE APPLICATIONS**

systems

components

expertise



# PRESSURE, LEAK, & VACUUM TESTING SYSTEMS, & HIGH PRESSURE SOLUTIONS

Engineered to your requirements and built using world-class components

## INDUSTRIES

- aerospace
- automotive
- oil & gas
- life sciences
- plumbing fixtures
- chemical manufacturing



Off-the-shelf units handle liquid pressure and leak testing applications in many industries



Single and multi-channel data-logging options can be provided with custom documentation



Unit controlled by panel-mounted PLC pressure tests castings in programmable cycles



## IT'S NOT JUST THE HARDWARE!

Our engineers and technologists have designed innovative pressure testing solutions for customers in many industries.

Their ability to combine experience and knowledge in hydraulics, pneumatics and vacuum with that in electronic controls allows Wainbee to design and build "smart" testing systems that reduce operator training times and procedural errors.



## APPLICATIONS

### pressure and leak testing

Some of the applications we have handled:

- Hydrotest BOPs (blowout preventers)
- Hydrotest valves to API (American Petroleum Industry) standards using either water or nitrogen
- Leak test piping using helium and nitrogen
- Testing all types of iron used under pressure in the oil industry. Includes piping, accumulators and valves used in fracing, mud injection and cementing equipment.
- Pressure, leak and functional testing of aircraft hydraulic systems
- Pressure testing aircraft fuselages
- Pressure testing aircraft hydraulic valves and other components
- Pressure testing hose and hose assemblies
- Leak testing fuel tanks for automobiles, trucks and mobile equipment
- Pressure and leak testing plumbing pipe, tubing and fixtures

### high pressure non-testing applications

- Methanol/chemical injection
- Down hole tool actuation
- Operation of emergency shut down devices
- Supply of barrier gas in dry seal systems on process pumps



Custom booster systems test or provide higher pressures for a variety of air and gas applications



Dual-mode testing bench delivers air up to 500 PSI and water to 20,000 PSI or higher



Single and multi-circuit units do pressure and functional testing of aircraft hydraulics



Programmable pneumatic tester shaves hours off aircraft fuselage pressure testing



Vacuum testing is commonly used in the detection of leaks via cracks or other surface imperfections



Automate your testing process by adding a customized controls package

## MEDIA

- |          |                 |
|----------|-----------------|
| • water  | • nitrogen      |
| • air    | • hydraulic oil |
| • helium | • Skydrol®      |



What testing process can we help you automate today?



# Components for Pressure & Leak Testing Equipment and other High Pressure Applications

## Liquid Pumps, Air/Gas Boosters, Pressure Intensifiers

- Liquid pumps to 100,000 PSI
- Air amplifiers to 5000 PSI
- Gas boosters to 37,000 PSI
- Hydraulic pressure intensifiers up to 29,000 PSI



## High Pressure Valves, Tubing

- Ball valves to 20,000 PSI
- Needle valves to 150,000 PSI
- Specialty products - manifolds, custom designed valves, zero clearance valves
- Accessory Products - filters, check valves, relief valves to 60,000 PSI
- Tubing and fittings to 150,000 PSI



## Vacuum & Pressure Monitoring

- Pressure & flow switches & transducers
- Zero leak liquid & gas valves to 9000 PSI
- Hazardous environment capable
- Temperature, level & flow switches



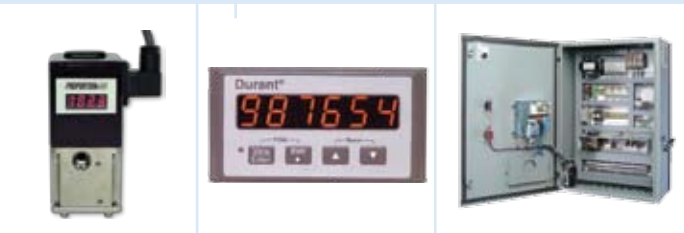
## Hydraulic & Pneumatic Components

- Hydraulic pumps, valves, cylinders,
- Hose & fittings
- Hydraulic accumulators to 20,000 PSI
- Gas receivers to 5000 PSI
- Air pilot switches and valves
- Regulating relief valves



## Controls

- Timers, ratemeters, counters, totalizers
- Proportional controls
- Control panels



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