



Gas Container Testing

Description



Haskel Gas Container Test Rigs can be supplied to test single or multiple containers simultaneously to pressures up to 1,000 bar (15,000 psi). They are able to hold this pressure without consuming power while the necessary measurements are being carried out. They can be supplied to meet standards such as DoT, BS, ISO and CGA depending on the customer requirements and the fields they will be operated in. Typical options and features are as follows:

- Typical test range of 2000 - 10000 psi
- Air operated test pump
- Automatic volumetric measuring device - burettes
- Automatic weighing measuring device - scales
- Accepts cylinders up to 12" diameter and 60" height (we can build exceptions which are much larger for submarine use etc)
- Calibrated pressure gauge
 - Class 3A, 1/4% accuracy
 - 8.5" diameter
- Pressure pulsation dampener
- Calibrated cylinder for full test range
- Expansion chart and adapter included
- Four manifolded, valved burette tubes (0-25cc, 0-50cc, 0-125cc, 0-360cc)
- Zero reference point marker
- Safety Relief
- Test methods either:
 - With or without water jacket
 - Volumetric or weight measurements of expansion



Cylinder Applications

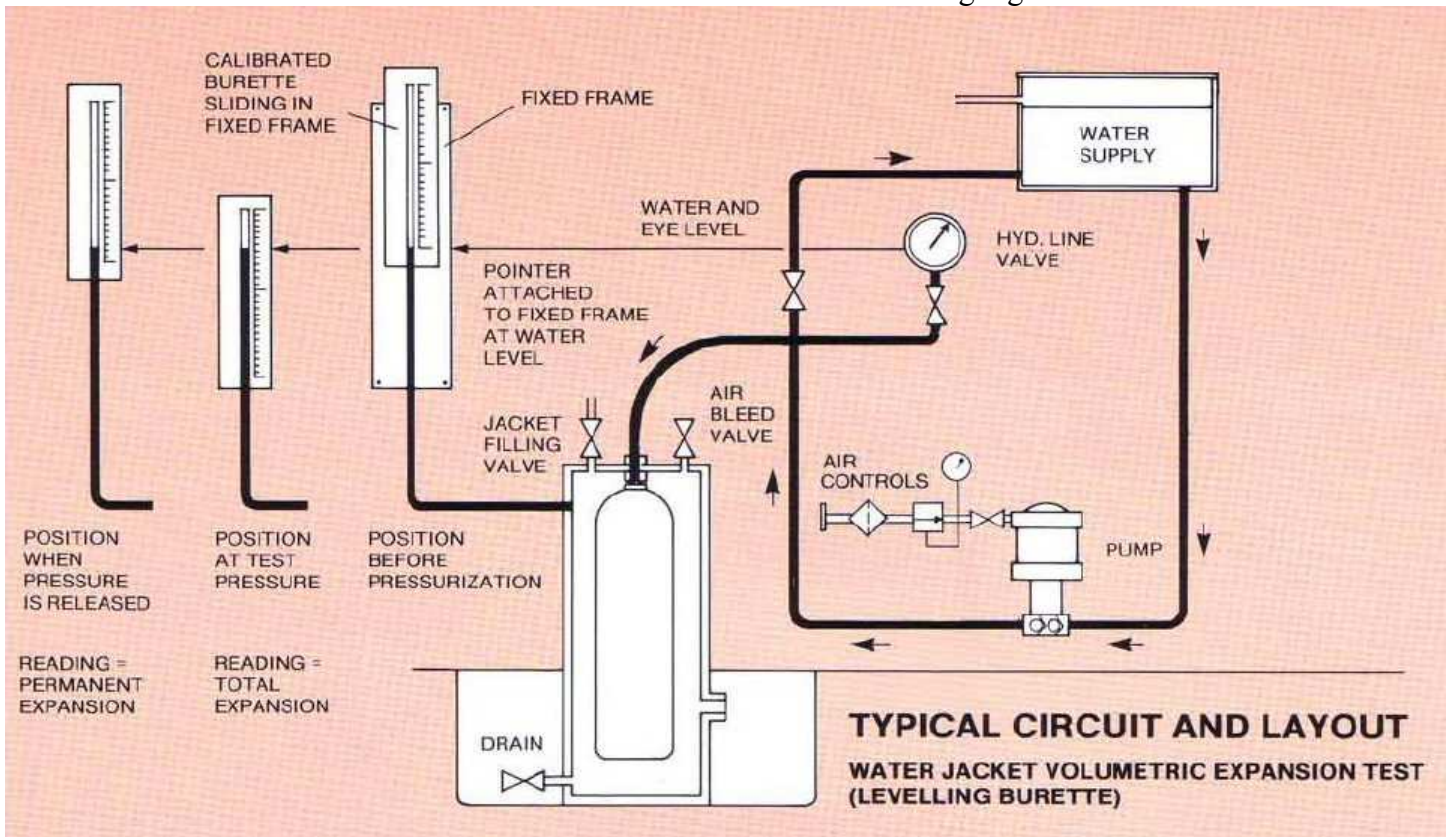
Haskel manufacture gas testing equipment for many different types of cylinders. These include the following:

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| <ul style="list-style-type: none"> • Pneumatic reservoirs in trucks for air brakes • Medical and industrial gas cylinders • Breathing gases in diving and aircraft including Oxygen & Heliox | <ul style="list-style-type: none"> • Fuels for internal combustion (CNG) engines • Heating equipment and cooking such as LP gas, • Oxy-fuel welding and cutting • Fire extinguisher cylinders • Refrigerant cylinders • Air Bag inflator • CO2 Cylinders for soft drinks, beers etc |
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Water Jacket/Non-Water Jacket Volumetric Testing

Both methods of test comprise of the following key items:

- A Haskel air driven liquid pump to generate the required test pressures. There is a wide range of pump models available to meet any pressure, flow and fluid test requirement.
- Glass burette tubes graduated and of sufficient uniform diameter and length to contain the full volumetric expansion of the gas container. Multiple burettes can be provided to cater for testing a wide range of container sizes.
- A calibrated pressure gauge to comply with the British Standards and fitted with a test point
- Container handling equipment which allows rotation from filling and test station to emptying of emptying of tested container
- All necessary pipework, valves (including relief valves) and fittings tested to twice the maximum test pressure of any container that may be tested
- A control panel which includes air pressure regulator which includes air pressure regulator, air pressure gauge, on/off speed control valve, isolation valves, a pressure release and return to tank bleed valve, burette measuring tubes and hydraulic pressure gauge
- All housed in a fabricated steel frame for wall mounting, bench mounting or free standing depending upon size of system and customer requirements
- A fluid reservoir with suction strainer, filler cap/breather and sight glass



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