

# BUCKLEY INDUSTRIAL

[www.buckley-industrial.co.uk](http://www.buckley-industrial.co.uk)

## Testing & Inspection of Flexible Hose Assemblies



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## HYDROSTATIC TESTING

Simply put, Hydrostatic Testing involves filling a hose assembly with water and taking it to a pre-specified test pressure, generally 1.5 times the maximum working pressure and holding it for a set period of time. Whilst under pressure the hose is monitored and inspected to ensure that the pressure is held and its integrity is maintained.

## WHY TEST FLEXIBLE HOSE?

Leaking hose assemblies are a risk to personal health and safety and there are many environmental issues associated with unwanted emissions. They can also be very costly in the form of lost production due to unforeseen outages. Buckley Industrial's philosophy of preventative testing virtually eliminates any unpleasant surprises and allows Customers to carefully manage planned maintenance thereby maximising the up time of their production process.

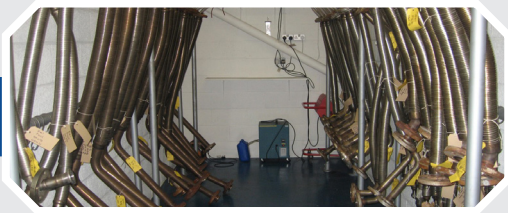
Buckley Industrial specialises in the testing of flexible hose assemblies and we refer to this throughout the inspection and testing element of this website. Our procedures are, however, equally applicable to other types of pressure components such as expansion joints, couplings etc.



## FACILITIES

Buckley Industrial has developed state of the art hydrostatic test rigs for the detailed testing of FMH's. Bespoke tracking software runs in tandem with the test rigs, recording any pressure drop. This allows us to detect even the smallest of leaks.

### PRESSURE TESTING RIG



### CUSTOM BUILT DRYING ROOMS

### VIDEOSCOPE INSPECTION



## Inspection & Testing Overview

Buckley Industrial is a specialist test house employing state of the art precision test equipment operated by experienced personnel. The hose testing techniques employed are:

#### Visual Inspection

Examining the outside of a hose looking for any defects which could cause it to leak during service.

#### Hydrostatic Testing

Pressurising water within a hose to ensure it can hold pressure without leaking.

#### Nitrogen Testing

Pressurising a hose with Nitrogen whilst underwater to ensure it can hold pressure without leaking.

#### Internal Inspection

Examining the inside of a hose looking for any defects which could cause it to fail during service.

#### Electrical Continuity Test

Testing for an electrical bond between the end fittings of a hose assembly to avoid static build-up within the length of the hose.

#### Helium Testing

Used to find leaks through the product. The helium is used as a tracer gas and its concentration is measured.



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