



WEBTEC

WEBTEC PRODUCTS LIMITED

Simplified Digital Hydraulic Testers to suit all applications

Measures Flow, Pressure and Temperature



DHT 1 SERIES

Manufacturers of hydraulic components and test equipment for the Mobile, Industrial and Agricultural industries



Certificate No.8242

Simple to use portable hydraulic testers...

An easy to use range of portable testers for field and workshop testing of hydraulic systems.

The DHT Series of hydraulic testers have been designed to meet the needs of engineers in the diagnostic testing of hydraulic systems; they are the result of over 35 years experience in the fluid power industry.

Hydraulic testers can simultaneously read flow, pressure and temperature.

Unique features include:

- Bi-Directional loading valve for quick simulation of machine operating loads
- Built-in "INTERPASS" protection against pressure overload
- Simple single switch operation

All testers are individually calibrated on test stands and all calibrations are traceable to National Standards.

Two models are available to meet individual testing requirements. Innovative design and attention to detail ensures a technically advanced and high quality product.

Benefits of Testing

Hydraulic testers enable you to quickly pinpoint which component is malfunctioning and causing poor system performance. The problem could be internal leakage in the pump, motor or valve.

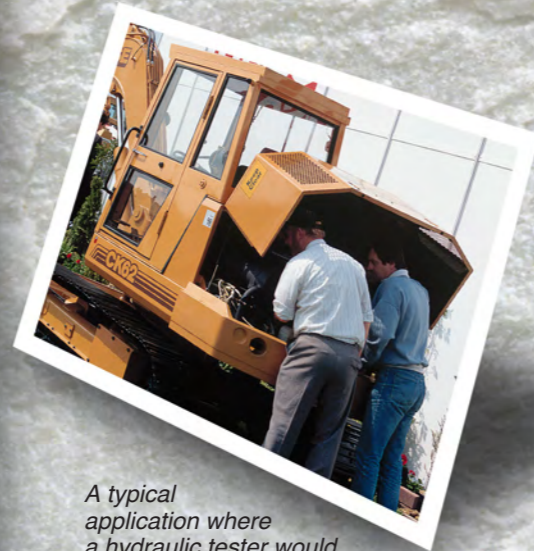
Measuring only the pressure means you can correctly set each valve and ensure that the machine is not being over-loaded. However you will need a flow meter to identify the suspect components.

Using a hydraulic tester you can quickly test a machine to identify a problem, thus eliminating guesswork. After completion of the repair you can easily re-test the machine.

The loading valve allows you to simulate the working conditions while in the workshop, making it far easier to run a test as you don't need to operate all the machine's functions.

DHT Series hydraulic testers reduce down-time and save on labour...

...engineered to make testing of hydraulic machinery fast and convenient.



A typical application where a hydraulic tester would save you down-time



"Every DHT Series digital hydraulic tester has been designed and built to withstand today's rigorous working environment using tomorrow's technology."

Analogue Pressure Gauge

Our pressure gauges are glycerine filled for fast reliable readings on fluctuating pressures. When simulating machine loading, you see not only the pressure but how the pressure is changing. When setting a relief valve, you can easily see the cracking pressure by watching for the sudden reduction in flow.

Battery Powered

All digital series testers are powered by a standard 9 Volt battery. An AUTO-OFF feature turns the tester off when not in use, saving battery life.

Bi-Directional Load Valve

A load valve allows you to simulate pressure on the hydraulic system without the need to operate all the machine functions in the workshop.

The pressure balanced design assures low handle effort and smooth operation over the entire flow and pressure range in either flow direction.

Unique "INTERPASS" Protection

Complete safety

Bi-Directional safety discs are built into the load valve. In the event of excess pressure in the hydraulic circuit, the discs rupture and oil is internally bypassed back to the tank, a feature unique to our testers. "INTERPASS" protects the hydraulic tester from being damaged as well as preventing oil spilling into the environment and onto the operator.

Digital Readout

Accuracy 1% of FULL-SCALE reading

The digital series of testers use computer technology to automatically linearise the characteristics of the turbine flow meter.

This gives a flow accuracy of 1% of FSD reading, a level of accuracy that can only be displayed on a digital readout.



Safety disc storage

There is an integral storage compartment for spare safety discs at the back of the tester, to ensure they are always available should you ever need them.

...for mobile and industrial applications

Product Selector

Portable Hydraulic Testers

Bi-directional, models up to 800 lpm (210 US gpm).
Measures flow, pressure and temperature

Take additional measurements

Yes

Measure shaft speed

No

Measure Peak Pressure, power and volumetric efficiency

No

Simplified controls

Analogue display or digital display

Digital

Analogue pressure 2nd flow and temperature

All digital display

Digital flow/temp & pressure

Analogue

Digital flow/temp & pressure



DHT '1' Series



HT '2' Series



DHT '2' Series



DHM '3' Series



DHT 1 Series

See our technical bulletin for full specifications

Flow and Pressure Ranges

Model Number	Flow Range	Pressure Range
DHT401-B-6	10 - 400 lpm	0 - 420 bar
DHT401-S-6	2.5 - 100 US gpm	0 - 6000 psi
DHT801-S-7-L*	20 - 800 lpm	0 - 480 bar
DHT801-S-7*	5 - 210 US gpm	0 - 7000 psi
DHT801-F-3-L*	20 - 800 lpm	0 - 210 bar
DHT801-F-3	5 - 210 US gpm	0 - 3000 psi

* DHT801 has limited pressure control below 86 lpm (23 US gpm).
The maximum controllable pressure in this region is calculated by:
max pressure (in bar) = 5 x flow (lpm) + 30

Your Webtec Products representative:



WEBTEC PRODUCTS LIMITED

Nuffield Road, St. Ives, Cambridgeshire, PE27 3LZ, UK
Tel: +44(0)1480 397400 Fax: +44(0)1480 466555

E-mail: sales@webtec.co.uk
See us at: www.webtec.co.uk