



WEBTEC

WEBSTER INSTRUMENTS
(A DIVISION OF WEBTEC PRODUCTS)

Simplified Digital Hydraulic Testers to suit all applications

Measures Flow, Pressure and Temperature



DHT1 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 1 Series hydraulic testers have been designed to meet the needs of engineers and technicians in the diagnostic testing of hydraulic systems; they are the result of over 35 years experience in the fluid power industry and continuous product improvement.

Hydraulic testers can simultaneously read flow, pressure and temperature.

Unique features include:

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

All hydraulic 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.

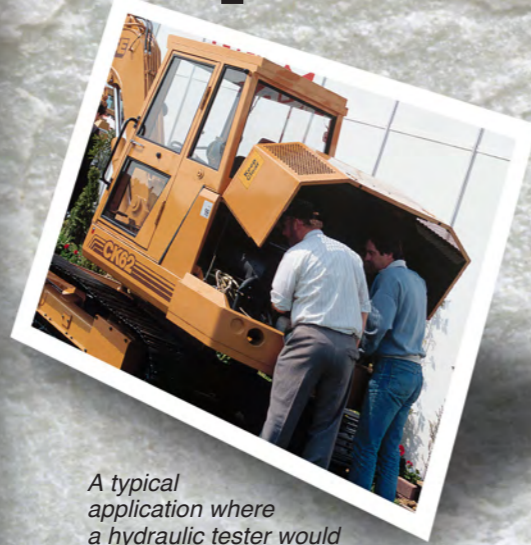
Measuring only the pressure means you can correctly set each valve and ensure that the machine is not being over-loaded. However you will need a flow meter to identify faulty components.

Using a hydraulic tester you can quickly test a machine to identify a problem, thus eliminating costly and time consuming guesswork. After completion of the repair you can re-test the machine and verify performance.

The loading valve allows you to simulate the working conditions in the field or shop, 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 labor...

...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."

Analog Pressure Gauge

Our pressure gauges are glycerine filled for fast reliable readings on fluctuating pressures. The gauge is connected to the flow block via a shuttle valve thereby indicating the high pressure side of the loading valve in either flow direction. 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.

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.

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

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 through the valve and on downstream at low pressure, a feature unique to our testers. "INTERPASS" protects the environment and most importantly YOU from external oil leakage.

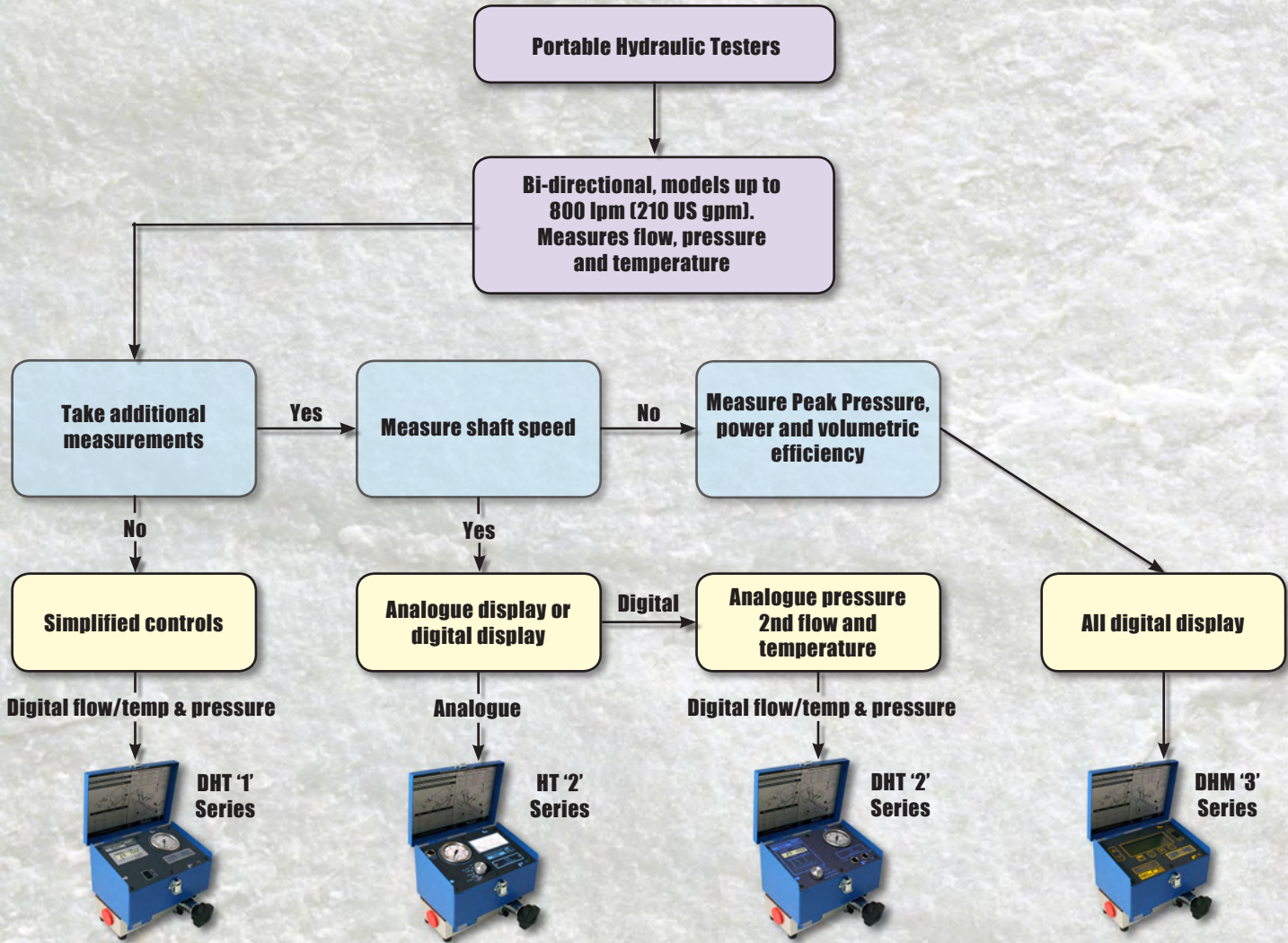


Safety disc storage

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



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

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