



# WEBTEC

**WEBSTER INSTRUMENTS**  
(A DIVISION OF WEBTEC PRODUCTS)

## Digital Hydraulic Testers to suit all applications

Measures Flow, Pressure,  
Temperature and Speed



# DHT 2 SERIES

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



Certificate No.8242

# Underneath, they're tougher than you think...

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, temperature and are also capable of reading drive shaft speed.

## Unique benefits include:

- Bi-Directional loading valve for quick simulation of machine operating loads
- Built-in "INTERPASS" protection against pressure overload
- Capable of reading a second flow and temperature

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

Over ten 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 guesswork. After completion of the repair you can easily re-test the machine.

The loading valve allows you to safely simulate the working conditions in the field or 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 labor...**

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



## Digital Readout

**Accuracy 1% of INDICATED 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 INDICATED reading, a level of accuracy that can only be displayed on a digital readout.

Temperature and drive shaft speeds are also displayed digitally.

## 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.



## 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**



**...because 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. 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 corresponding to pressure rise.

## Infra-red Tachometer

An external photo-tachometer can be connected to all '2' series testers. This allows the user to accurately measure and display shaft speed.

## External Flow Input

**Calibrate in the field to any LT flow meter**

The DHT '2' series testers incorporate an EXTERNAL flow input. With this feature you can plug in and calibrate in the field any LT series flow meter from 0.03 - 400 gpm.

Now you can check flow and temperature on double pumps without needing to reconnect hoses.

## Bi-Directional Load Valve

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

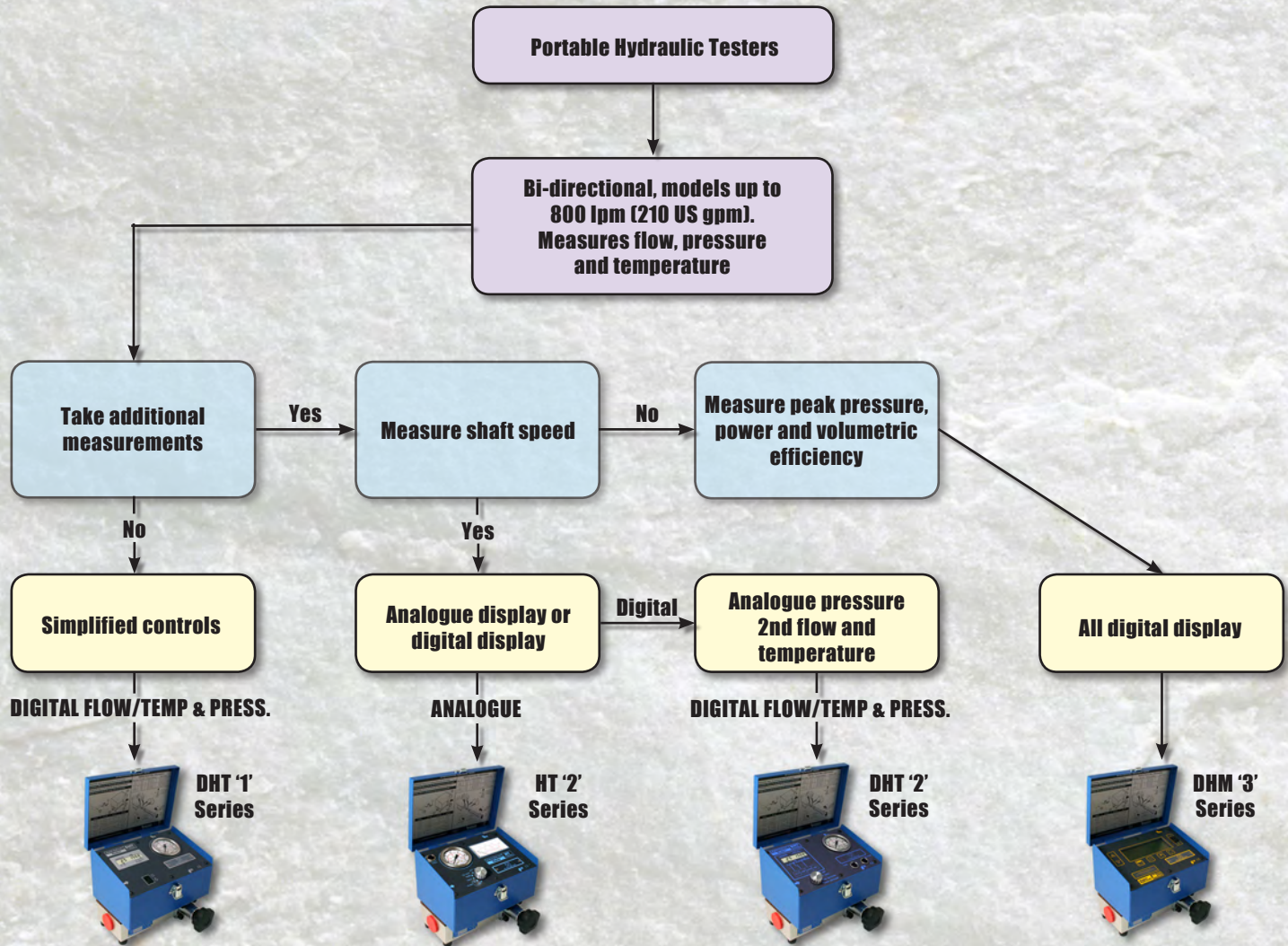
The pressure balanced design assures low handle effort and smooth operation over the entire flow and pressure range in either flow direction.

## 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 through the valve 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.

# Product Selector



**DHT 2 Series**

See our technical bulletin for full specifications

## Flow and Pressure Ranges

Model Number	Flow Range	Pressure Range
DHT302-B-6	8 - 300 lpm	0 - 420 bar
DHT302-S-6	2 - 80 US gpm	0 - 6000 psi
DHT402-B-6	10 - 400 lpm	0 - 420 bar
DHT402-S-6	2.5 - 100 US gpm	0 - 6000 psi
DHT602-F-3	20 - 600 lpm	0 - 210 bar
DHT602-F-3	5 - 160 US gpm	0 - 3000 psi
DHT602-S-7	20 - 600 lpm	0 - 480 bar
DHT602-S-7	5 - 160 US gpm	0 - 7000 psi
DHT802-F-3	20 - 800 lpm	0 - 210 bar
DHT802-F-3	5 - 210 US gpm	0 - 3000 psi
DHT802-S-7	20 - 800 lpm	0 - 480 bar
DHT802-S-7	5 - 210 US gpm	0 - 7000 psi



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