



# WEBTEC

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

## Digital Hydraulic Multimeter

Measures Flow, Pressure,  
Peak Pressure, Temperature,  
Power and Volumetric Efficiency



# DHM 3 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.

DHM Series 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.

The DHM '3' series can simultaneously measure flow, pressure, peak pressure and temperature.

## Unique features include:

- Automatic calculation of hydraulic power and volumetric efficiency
- Bi-Directional loading valve for quick simulation of machine operating loads
- Built-in INTERPASS protection against pressure overload

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.

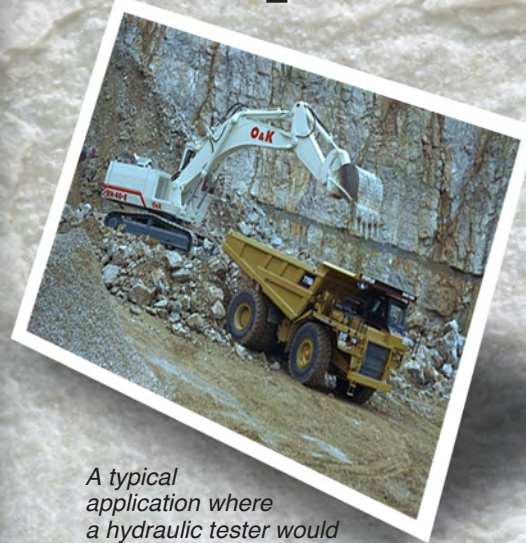
Measuring only the pressure means you can correctly set each valve and ensure that the machine is not being over-loaded. However you will need a flow meter to identify the faulty components.

Using a hydraulic tester you can quickly test a machine to identify a problem, eliminating costly and time consuming guesswork. After completion of the repair you can easily re-test the machine and tune to optimum settings.

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.

**DHM Series Hydraulic testers reduce down-time and save on labor...**

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



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

## Bright LCD screen

The 4 x 12 cm screen has a wide viewing angle and can display 4 measurements simultaneously each with a 9mm letter height. Bar-graph display provides visual rate of change for each measurement. Screen contrast is easily adjusted using +/- buttons for indoor or outdoor viewing.

## High accuracy

Accuracy is particularly important when measuring flow and pressure so that you can make the correct decision, whether you are testing at 10 or 100 gpm, at 600 or 6000 psi.

This is why the DHM incorporates a 12 bit micro-processor with the latest software linearisation to provide flow accuracy of 1% (IR) and pressure accuracy of 0.5% (FS). The DHM will even capture short pressure spikes, as it has a sample rate of 1 ms.



## 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.

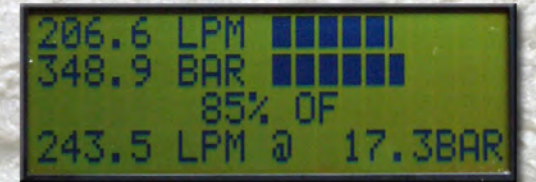
**...for mobile and industrial applications**



**“Every DHM Series digital hydraulic tester has been designed and built to withstand today's rigorous working environment using tomorrow's technology.”**

## Unique P-Q test facility

Measure pump volumetric efficiency at multiple pressures to evaluate pump condition.



## Simple Push Button Control

The intuitive front panel design makes the DHM '3' series easy to use enabling you to (1) toggle between three display screens, (2) switch between measuring temperature and power, (3) clear pressure peaks and (4) change engineering units.

## 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

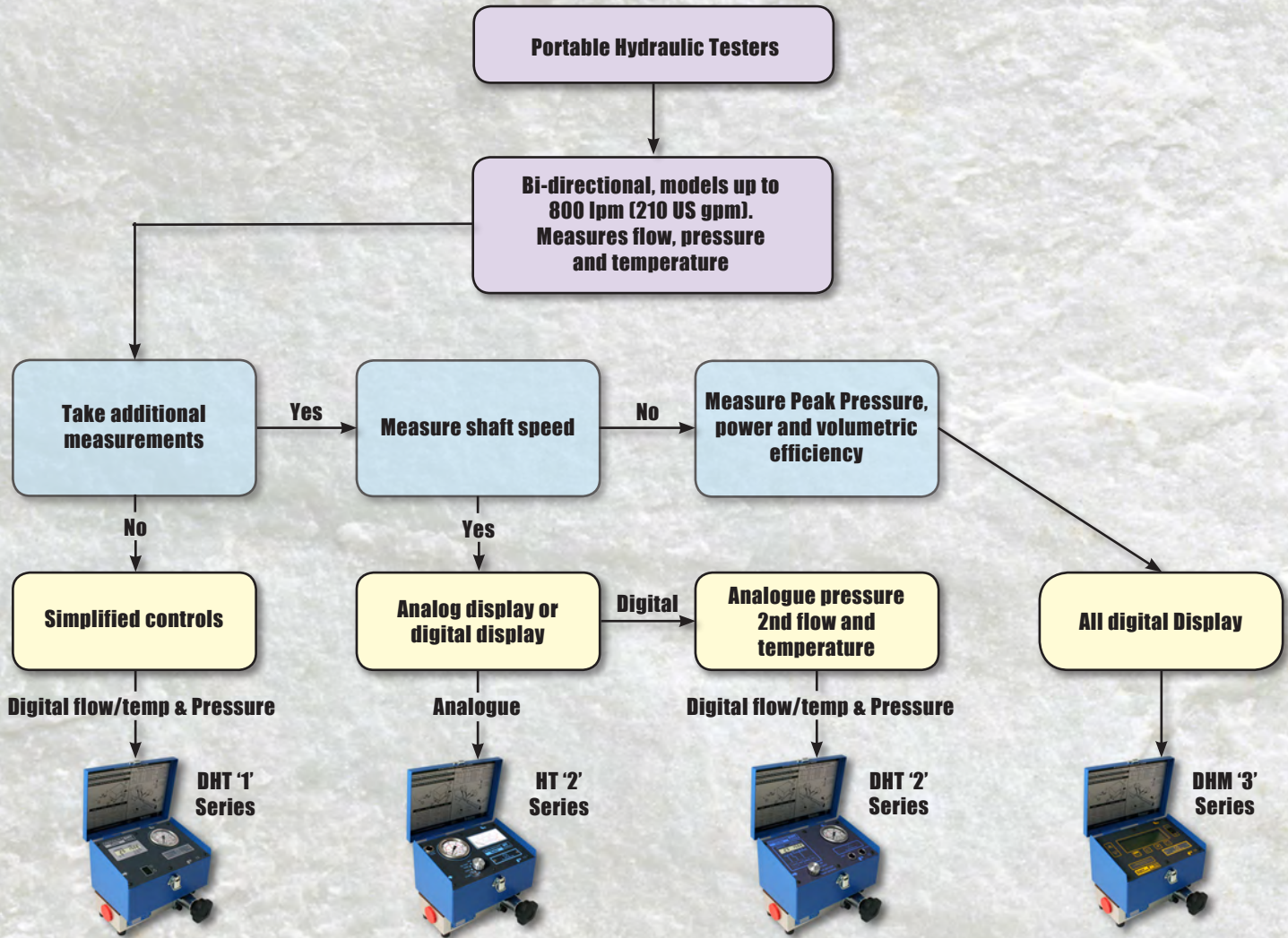
A load valve allows you to simulate pressure on the hydraulic system without the need to operate all the machine functions in the workshop.

Much more than a needle valve, the pressure balanced design assures low handle effort, smooth operation and precise control over the entire flow and pressure range in either flow direction.

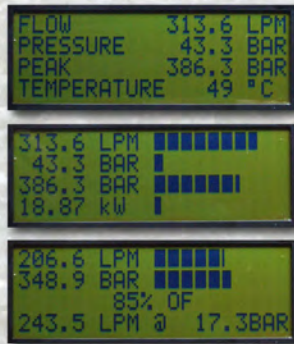
## Unique “INTERPASS” Protection

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 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



## Digital Hydraulic Multimeter



## Flow and Pressure Ranges

Model Number	Flow range	Pressure range
DHM403-B-6	10 - 400 lpm	0 - 420 bar
DHM403-S-6	2.5 - 100 US gpm	0 - 6000 psi
DHM803-S-7-L	20 - 800 lpm	0 - 480 bar
DHM803-S-7	5 - 210 US gpm	0 - 7000 psi



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