



WEBTEC

WEBSTER INSTRUMENTS (A DIVISION OF WEBTEC PRODUCTS)



Product Overview

**The Webster Range of Hydraulic
Test Equipment**

Why you need to test hydraulic systems and Webtec service facilities

Testing hydraulic systems

For anyone who has experienced a hydraulic component failure when they could least afford it, the Webster range of test equipment holds the answer.

If your system is down and oil is collecting around your feet, the downtime is costing you \$\$\$\$'s a day. You need to quickly identify which component has failed, fix it, test the system and get back to work.

A Webster portable tester will allow you, even if you are working alone, to easily and safely simulate operating conditions using the built-in load valve to help pinpoint the fault. Many customers use portable testers to validate component operation in repair and production environments. The illustration below demonstrates a DHCR tester being used with two flow meters and a phototach to measure flow, pressure, temperature and speed.

For safety, Webster testers include the unique INTERPASS protection system. In the event of over-pressurisation, burst discs built-in to the load valve will safely bypass oil internally through the valve and back to tank.

NOT externally into the environment or onto you.

Webtec has a policy of innovation and continuous improvement that has led to the range you see here with unique features such as the bi-directional pressure balanced load valve, internal burst discs and simplified controls.

Webtec Service Centre



Service required?

We specialise in re-calibration of all hydraulic test equipment, whether from the Webster range or another manufacturer's. Our service department is equipped for electronic and mechanical repair work with flow, pressure and temperature calibration facilities.

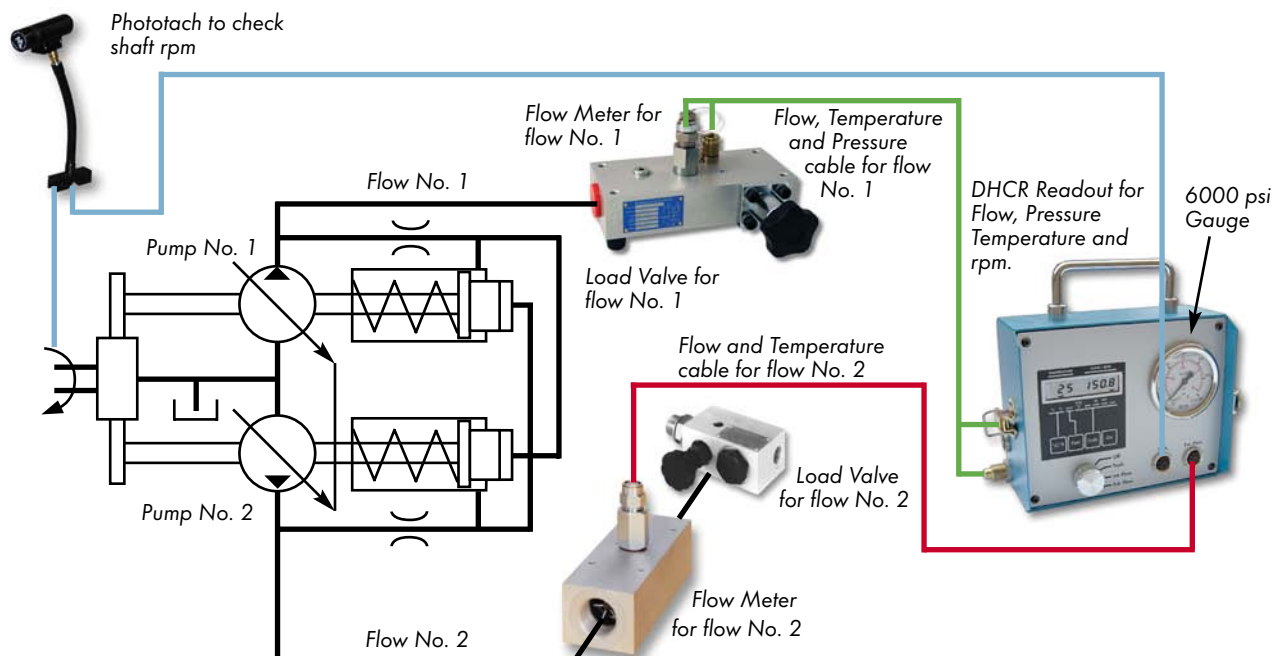
Quality

We operate in accordance with ISO 9001 and all of our test references are traceable to national & international standards.

As a manufacturing company Webtec Products Ltd is ideally suited to servicing and repairing both hydraulic components and test equipment.

Further information

Please see contact details on back page.



Flow Indicators & Pressure Test Kits for continuous monitoring

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Accuracy: See below
Pressure: Up to 3500 psi
Ports: SAE, NPT or BSP
Applications:

Hydraulic condition monitoring and test stands

Flow: Up to 150 gpm
Type: Unidirectional

Low pressure flow indicators



WPC Series

- Ideal for tank line monitoring
- From 0.05 up to 30 gpm at 1000 psi
- Available in aluminium for oil
- Low cost, accuracy 5% FS

Medium pressure flow indicators



WPB Series

- Economical solution, accuracy 4% FS
- From 0.05 up to 150 gpm at 3500 psi
- Flow switches and analog output available
- Suitable for oil, water-glycol & phosphate ester

Pressure Test Kits



PT100 Series

- Complete kits for pressure testing
- Assembled to customer specification
- Install test points wherever required in the circuit
- Kit includes various range gauges, hoses and test points

Accuracy: 4% FSD
Pressure: Up to 6000 psi
Ports: SAE, NPT or BSP
Applications:

Hydraulic condition monitoring and test stands

Flow: Up to 100 gpm
Type: See below

High pressure flow indicators



FI 750 Series

- 3/4" line size, unidirectional, up to 50 gpm and 6000 psi
- 1/4" Pressure gauge port
- Optional flow switch
- Optional thermometer
- Available in aluminium for oil, or brass for water



FI 1500 Series

- 1.5" line size, unidirectional, up to 100 gpm and 5000 psi
- 1/4" pressure gauge port
- Optional flow switch
- Optional thermometer
- Available in aluminium for oil, or brass for water



RFI 1000 Series

- 1" line size, up to 54 gpm and 6000 psi
- Free reverse flow
- 1/4" pressure gauge port
- Built-in thermometer
- Available in aluminium for oil

Portable hydraulic testers

Accuracy: 4% FSD
Pressure: Up to 6000 psi
Ports: SAE, JIC or BSP
Applications:
 Agricultural, small-medium mobile machinery

Flow: Up to 54 gpm
Use: See below

Accuracy: See below
Pressure: Up to 7000 psi
Ports: SAE or BSP
Applications:
 Mobile machinery and large fixed installations

Flow: Up to 200 gpm
Use: Bidirectional

Mechanical testers



FIK Series

- Low cost hydraulic tester
- Measure flow (unidirectional), pressure and temperature
- Built-in loading valve, INTERPASS protected
- No batteries required

Simplified digital testers



DHT '1' Series

- Measure flow (1% FS), pressure*, and temperature
- Simple 'On / Off' control
- Simulate machine performance using loading valve
- INTERPASS protected



RFIK Series

- Improved design, low pressure drop
- Measure flow, pressure and temperature (free reverse flow)
- Built-in loading valve, INTERPASS protected
- No batteries required

Digital Hydraulic Multimeter



DHM '3' Series

- All digital display
- Measure flow (1% IR), pressure*, peak and temperature
- Easy to use, three standard screens
- Measure hydraulic pump volumetric efficiency with P-Q test in real time
- Simulate machine performance using Bidirectional loading valve
- INTERPASS protected
- Pressure sensor on shuttle valve always indicating high pressure side of load valve.

Separate loading valve



HV100

- Simulate machine performance
- Five models: 30, 50, 100, 200, 400 gpm
- 1/4" pressure gauge port
- Safe and clean to use, INTERPASS protected
- Use separately or with LT, CT, FI or WP flow meters



P-Q Test
Volumetric Efficiency

Accuracy: 1% IR

Pressure: Up to 7000 psi

Ports: SAE or BSP

Applications:

Mobile machinery and large fixed installations

Flow: Up to 400 gpm

Use: Bidirectional

Accuracy: 1% FS

Pressure: Up to 7000 psi

Ports: SAE or BSP

Applications:

Mobile machinery and large fixed installations

Flow: Up to 200 gpm

Use: Bidirectional

Digital reading testers with remote inputs



- Measure flow, pressure* and temperature
- Secondary flow and speed inputs
- Simulate machine performance using loading valve
- INTERPASS protected

DHT '2' Series

Analog testers with remote input



- Measure flow, pressure* and temperature
- External speed input
- Simulate machine performance using loading valve
- INTERPASS protected

HT '2' Series

* Built-in shuttle valve across load valve always indicates high pressure side of valve regardless of flow direction.



DHCR Series

- Remote readout for use with LT / LTR Series
- Measure flow, pressure* and temperature
- Secondary flow and speed inputs

Accessories



TH3 IR Tach

Phototachometer

- Infra-red tachometer
- Unaffected by bright sunlight
- Optional mounting arm and magnetic base
- Ideal for mobile machinery

OEM Test kits



- Custom test kits built to your specification
- Ideal tool kits for service engineers
- OEM branding and marketing solutions available
- Used by major mobile machinery OEMs worldwide



OEMs worldwide

Portable Dataloggers & Readouts (Sensor recognition)

Sensor recognition (SR):

Sensors can be plugged into any input of an HPM readout, automatic recognition of the type, range and calibration of the sensor. No user input.

Applications:

Hydraulic system maintenance and in-depth faultfinding. All hydraulic machinery, both mobile and fixed installations.

Hand held readouts



HPM 420

- 2 input readout with 2 line display
- Peak capture and dP calculation
- Rechargeable battery

Hand held dataloggers



HPM 540/460

- 4 and 6 input data loggers with multi-line display
- High speed data capture and storage
- Windows compatible software
- Rechargeable battery
- USB connectivity (540 only) 

Flow meters (CT-SR)



CT-SR Series

- Precision turbine flow meters (1% IR)
- 6 models cover range 0.25 - 160 gpm, up to 7000 psi.
- Additional top sensor ports

Sensors (SR)



TTP & PTT

- Pressure transducers rated up to 15000 psi
- Temperature sensor
- Speed sensor
- Current & voltage input converters for custom inputs (coil voltage, torque etc.)

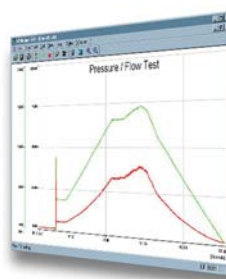
Flow meters (CTR-SR)



CTR-SR Series

- Precision turbine flow meters with built-in loading valve (1% IR)
- 3 models cover range 2.5 - 160 gpm, up to 7000 psi
- INTERPASS protected
- Additional top sensor ports

PC software



HPMcomm software

- PC compatible analysis software for HPM540/460
- Analyze data fast and accurately
- Produce reports and graphs
- Display with multiple Y-axes, overlay curves

Flow, Pressure & Temperature Sensors for permanent installation

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4 - 20 mA sensors:

On-board electronics to optimize accuracy and response time. Industry standard 2 wire 4 - 20 mA output. Fast and simple to install. Other analog outputs available.

Applications:

Condition monitoring, hydraulic test stands, control systems, remote monitoring

CT flow meters (4 - 20mA)



CT - mA Series

- Precision turbine flow meters (1% IR)
- 8 models cover range 0.25 - 400 gpm, up to 7000 psi
- Fast response time
- Amplified outputs available (mA, V, pulse)

Panel readouts (4 - 20 mA)



DP Series

- Standard 1/8 DIN panel cutout, only 3.6" behind panel depth.
- Compatible with all 4 - 20 mA sensors
- AC and DC versions
- Optional programmable alarms, relay switches and analog output available

Pressure transducers (4 - 20mA)



MPT Series

- Models cover pressure range 15 - 15000 psi.
- Accurate to 0.25% full scale
- Fast response time
- Outputs available (mA, V)

Flow meters - special applications



LG Series

- Precision gear type flow meters (1% IR)
- Flow range 0.04 - 4 gpm, up to 3000 psi
- Unidirectional

Temperature sensors (4 - 20 mA)



TP Series

- Scaled up to 150°C
- Accuracy 1 °C
- Rated to 6900 psi
- Fast response time
- Other outputs available (mA, V)

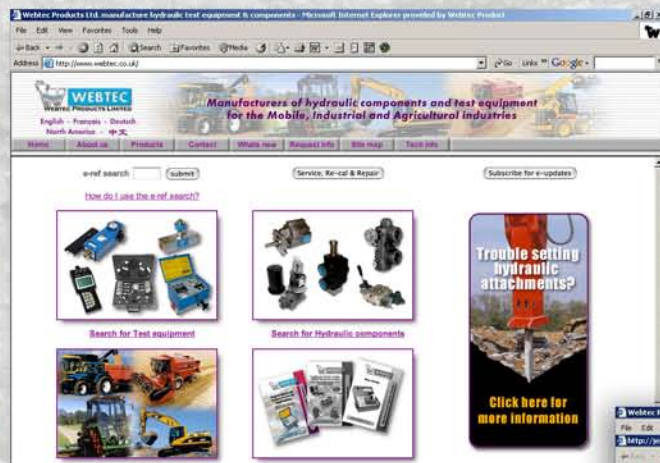
Digital Pressure Gauge



HPM110

- Monitor pressure & Min/Max pressure
- Pressure units: psi, bar, kPa, mba, MPa
- Working pressure up to 8700 psi
- Accurate ($\pm 0.5\%$ FS)
- Battery operated

Want to know more about the Webster range? Then try our **new** searchable multi-language website

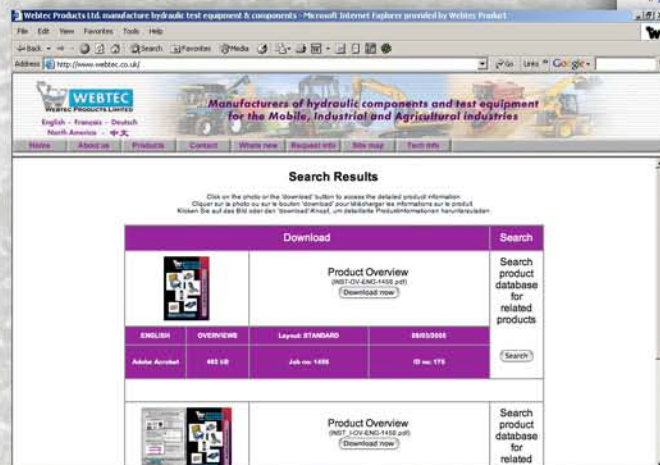


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Webtec Products Limited reserve the right to make improvements and changes to the specification without notice.

Your Webster Instruments representative:



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