WEBSTER INSTRUMENTS (A DIVISION OF WEBTEC PRODUCTS)





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 which in the event of over-pressurisation, safely bypasses oil internally through the valve and back to tank.

NOT externally into the environment or worse, onto you.

Webtec has a policy of innovation and continuous product 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 Center



Service required?

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

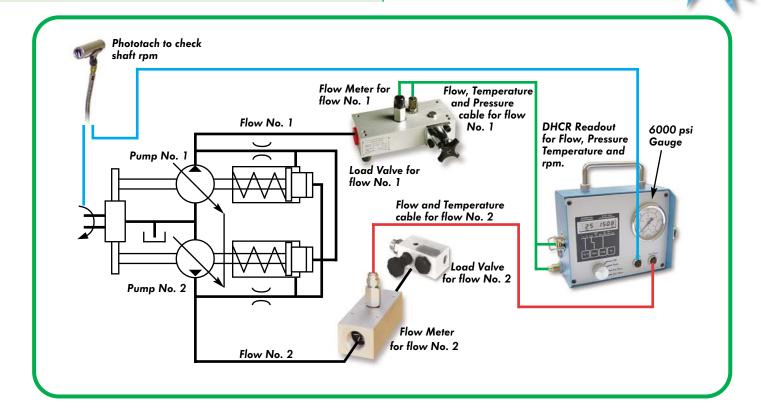
Quality

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



Accuracy: See below Pressure: Up to 3500 psi Ports: SAE, NPT or BSP Applications: Flow: Up to 150 gpm Type: Unidirectional

Hydraulic condition monitoring and test stands

Low pressure flow indicators



- 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



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

Pressure Test Kits



- 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:

Type: See below

Flow: Up to 100 gpm

Hydraulic condition monitoring and test stands

- High pressure flow indicators Unidirectional, up to 50 gpm and 6000 psi
 - 1/4" Pressure gauge port
 - Optional thermometer & flow switch
 - 3/4" Line size
 - Available in aluminium for oil, or brass for water
 - Unidirectional, up to 100 gpm and 5000 psi
 - 1/4" pressure gauge port
 - Optional thermometer & flow switch
 - l-1/2" Line size
 - Available in aluminium for oil, or brass for water
 - Allows reverse flow up to 50 gpm and 6000 psi
 - 1/4" pressure gauge port
 - Built-in thermometer
 - Available in aluminium for oil

FI 750 Series







Portable hydraulic testers

Accuracy: 4% FSD Pressure: Up to 6000 psi Ports: SAE, JIC or BSP Applications: Agricultural small-medium Flow: Up to 50 gpm Use: See below

Agricultural, small-medium mobile machinery

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

Mobile machinery and large fixed installations



Accuracy: See below

Ports: SAE or BSP

Applications:

Pressure: Up to 7000 psi

 Measure flow (1% FS), pressure and temperature

Flow: Up to 200 gpm

Use: Bidirectional

- Simple 'On / Off' control
- Simulate machine performance using loading valve
- INTERPASS protected



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

Separate loading valve



HV Series

Simulate machine performance (Bidirectional)

- Four models: 30, 50, 100, 200 gpm
- 1/4" pressure gauge port (on shuttle valve in 100 & 200 gpm modles)
- Safe and clean to use, INTERPASS protected
- Use separately or with LT, CT, FI, RFI or WP flow meters

Digital Hydraulic Multimeter



243.5 LPM @ 17.3BAR

P-Q Test

Volumetric Efficiency

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

Portable hydraulic testers



Accuracy: 1% IR F Pressure: Up to 7000 psi U Ports: SAE or BSP Applications:

Flow: Up to 350 gpm Use: Bidirectional

Mobile machinery and large fixed installations

Digital reading testers with remote inputs



DHCR Series

TH3 IR Tach

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



Accuracy: 2% FS

Ports: SAE / BSP Applications:

Pressure: Up to 7000 psi

- Measure flow, pressure* and temperature
- External speed input

Flow: Up to 200 gpm

Use: Bidirectional

- Simulate machine performance using loading valve
- INTERPASS protected

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

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



OEMs worldwide

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

Accessories

Phototachometer

- Infra-red tachometer
- Unaffected by bright sunlight
- Optional mounting arm and magnetic base (Model BA20)
- 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

Analog testers with remote input

Mobile machinery and large fixed installations



Portable Dataloggers & Readouts (Sensor recognition)

Sensor recognition (SR):

HPM 425

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.

Hand held readouts

- 2 input readout with 2 line display
- Automatic sensor recognition & input scaling
- Peak capture and dP calculation
- **Rechargeable battery**

Applications:

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



- 4 or 6 input data loggers with multi-line display
- High speed data capture and storage
- Windows compatible software
- Rechargeable battery

Flow meters (CT-SR)

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

TP400 & PT630

Sensors (SR)

- Pressure transducers rated up to 15000 psi
- **Temperature sensor**
- Speed sensor
- **Current & voltage** input converters for custom sensors

Flow meters (CTR-SR)



CT-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
- Additiona ltop sensor ports

PC software

and the same **HPMcomm** software

- PC compatible analysis software for HPM440/460
- Analyze data fast and accurately
- Produce reports and graphs
- **Display with multiple** Y-axes, overlay curves

Flow, Pressure & Temperature Sensors for permanent installation



4 - 20 mA sensors:

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

CT flow meters (4 - 20mA)



Precision turbine flow meters (1% IR)

- 7 models cover range 0.25 - 350 gpm, up to 7000 psi
- Sensor ports for pressure and temperature
 - **Outputs available** (mA, V, pulse)

Pressure transducers (4 - 20mA)



- Models cover pressure range 500 - 15000 psi.
- Accurate to 0.15% full scale
- 0.5 mS response time
- **Outputs available** (mA, mV, V)

Applications:

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



DP Series

- Standard DIN panel cut-out size
- Compatible with all 4 - 20 mA sensors
- AC and DC versions
- **Optional programable** alarms, relay switches, analog output or RS485 available

Flow meters - special applications



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

Temperature sensors (4 - 20 mA)

Scaled up to 150°C



- Accuracy 1 °C
- Rated to 6900 psi
- Fast response time
- Outputs (mA, V)



- **Turbine flow meters** with anti-swirl discs (1% IR)
- 4 models cover range 1 - 100 gpm, up to 6000 psi
- **Designed** for installation in confined areas.
- **Bidirectional**

Panel readouts (4 - 20 mA)

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



Home page

Search by product type and application

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- Feature product panel
- Search over 450 pieces of printer friendly literature: **Product Overviews**

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Designed and produced by the Marketing Dept. Webtec Products Ltd.

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Webster test equipment - Portable hydraulic ter

Flow accuracy 1% of real
Easy to use

- **Color brochures**
- **Technical bulletins**
- User manuals

Description

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r up to 800 lpm (200 U

iure up to 480 bar (7000 pri) erature up to 120 °C (248 °F)

Product information

- Simple to use, search using pull-down boxes
- Detailed information on specified product and associated products at the click of a button

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Search Results Click on the picture to upon the pdf lit

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Links to available literature

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