

# RFIK Series Mechanical Hydraulic Tester

Up to

- 200 lpm, 54 US gpm
- 420 bar, 6000 psi

The RFIK mechanical hydraulic tester provides the ideal solution for servicing and commissioning hydraulic circuits on agricultural and other mobile machinery.

The kit comprises of a direct acting flow indicator with built in thermometer, a loading valve and a pressure gauge all built into a strong steel case with a removable lid.

The unit is self contained and requires no electrical power. The dials are clear and easy to read. Installation is extremely simple and the test kit can be connected into either the pressure or return lines. The loading valve and pressure gauge allow a progressive build up of system pressure in complete safety.

The test kit provides the service engineer with quick, accurate and simple performance testing of pumps, motors, valves, cylinders and complete hydraulic circuits.

*Note: This unit is not designed for permanent installation.*



*RFIK Mechanical Hydraulic Tester*

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



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## Features

- **FLOW:** 10 - 200 lpm, 4 - 54 US gpm
- **PRESSURE:** 420 bar, 6000 psi
- **BUILT-IN** thermometer
- **ALLOWS** reverse flow
- **NO** batteries required
- **FLOW ACCURACY** within 4% FSD
- **LARGE** clear easy to read dials
- **SMOOTH** pressure control up to 420 bar, 6000 psi
- **SAFE** to use, with 'INTERPASS'<sup>™</sup> internal safety protection system. Protects system and operator against accidental over-pressure in both flow directions



## Specifications

Model Number	Calibrated Flow Range		Inlet fitting	Outlet fitting
	lpm	US gpm		
RFIK120-B-6	10 - 120	4 - 32	1" BSPP	1" BSPP
RFIK200-B-6	10 - 200	4 - 54	1" BSPP	1" BSPP
RFIK120-S-6	10 - 120	4 - 32	1-5/16" -12UN JIC Male	1-5/16" -12UN JIC Male
RFIK200-S-6	10 - 200	4 - 54	1-5/16" -12UN JIC Male	1-5/16" -12UN JIC Male

### Functional specification

**Ambient temperature:** -10 to 50 °C (14 - 122 °F)

**Fluid type:** Hydraulic oils

**Fluid temperature:** 20 to 80 °C (68 - 176 °F) continuous use. Intermittently (< 10 minutes) up to 110 °C (230 °F).

**Maximum pressure:** 420 Bar (6000 psi)

**Displays:** Pressure and flow 2.5" (63mm) dials  
Temperature 2" (50mm) long scale 20 to 120 °C (68 - 248 °F)

**Accuracy:** Flow: ± 4% of full scale  
Pressure: ± 1.6% of full scale  
Temperature: ± 2.5 °C (± 5 °F)

**Dimensions:** 310 x 105 x 120 mm (12-1/4" x 4-1/8" x 4-7/8")

**Weight:** 5 kg (11 lbs)

### Construction material

**Case:** Painted steel - removable lid

**FI body:** Aluminium 2011T6

**Load valve body:** Aluminium 2011T6

**Internal components:** Stainless steel, brass

**Seals:** Viton

### Operation

There are two main elements to the RFIK - the reverse flow indicator (RFI) and the load valve. The flow indicator block houses a metering piston which moves against a calibrated spring. The piston is magnetically coupled to a rotary pointer to provide a direct reading of flow on the dial, flow scale is displayed in both lpm and US gpm. The thermometer also mounted in the flow block near the fluid flow. Both flow and temperature scales are shielded behind impact resistant windows.

The load valve is connected directly to the flow block and a 420 bar (6000 psi) pressure gauge is mounted in the inlet section of the loading valve. The valve is easy to operate and, combined with the pressure gauge, allows sensitive and progressive control of system pressure throughout the working range.

### Reverse flow

The tester will allow reverse flow but will not measure the reverse flow, i.e. the flow needle will indicate zero.

### Safety Discs

Protection against over pressure is provided by two internal safety discs which relieve at 440 bar (6400 psi) without external spillage. The safety discs are housed in a cartridge and are easily replaceable. Each unit is supplied with four spare discs.

### Calibration

All testers are calibrated with 28cSt oil as standard. Calibration certificates are available on request - this is a chargeable option. Other calibration on request - please consult sales office.

### Installation

It is recommended to connect with flexible hoses of at least 500mm (1.5') in length.

### Accessories

A range of burst discs are available - please consult the sales office.

### Ordering

To order a RFIK please quote the model number from the table above or if you required model is not in the table please consult Webtec sales office for help and advice.

