



MONITORS INC

Division of Total Automated Solutions, Inc.

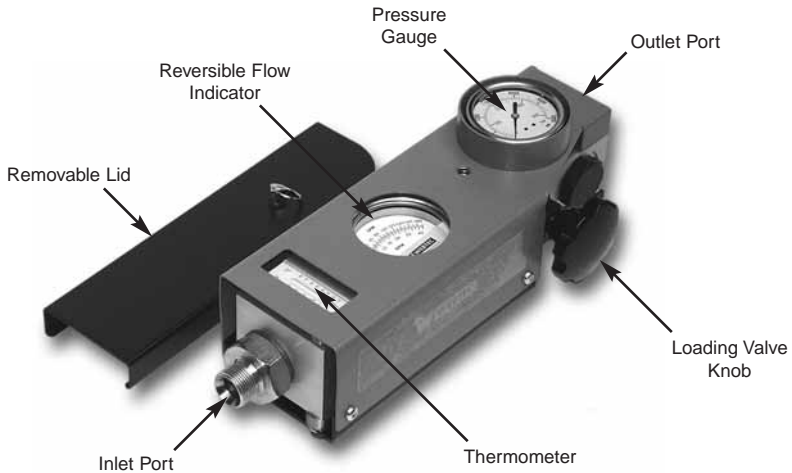
*RFIK Series Reversible
Hydraulic Tester*

32 GPM max., 48 GPM max.



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Operating and Service Instructions



RFIK Series Reversible Hydraulic Tester

The RFIK (Reversible Flow Indicator Test Kit) 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.

RFIK Overview:

The RFIK comprises the following items built into a steel frame.

- Reversible Flow Indicator with 120 or 180 lpm flow scale and thermometer scale 10 - 80 °C (50 - 180°F).
- Loading valve with built-in safety discs and glycerine filled pressure gauge. The valve is easy to turn and gives progressive control of system pressure loading.
- Safety discs - Four spare discs are supplied with the kit. Specify FT338-6, 440 bar, 6400 psi for replacements. Note these discs are color coded red for easy identification. Other safety discs with lower pressure ratings are available. Consult Sales Office for details.
- Carrying handle, which may also be used for hanging up the unit.

Model No.	Flow range		Max. Pressure		Temperature range	
	GPM	lpm	psi	bar	°F	°C
WTA-32	1.3–32	5–120	6000	420	50–180	10–80
WTA-50	2–48	5–180	6000	420	50–180	10–80

Connections

By flexible hoses

(2'–3' recommended length)

Inlet Port: #16 SAE

Outlet Port: #12 SAE

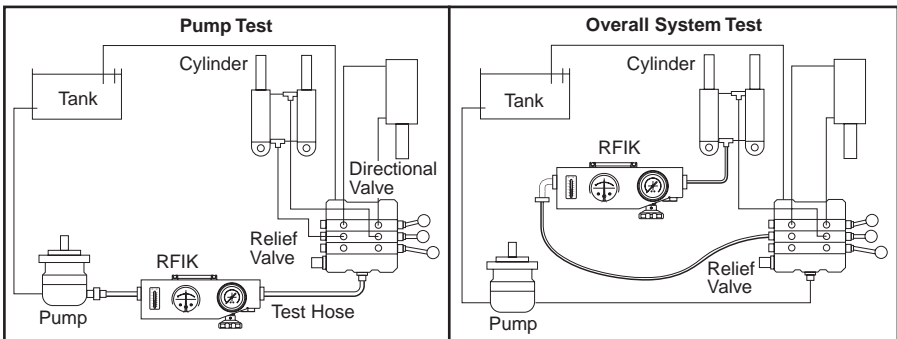
Adapters are available to suit most applications. Consult sales office for details.

Connect the analyzer into the hydraulic system as required using two 2'–3' long hoses. Ensure that the flow you wish to measure is passing through the test analyzer in the direction of the double-arrows on the flow indicator dial. Flow is allowed in the direction of the single arrow, but this flow will not be measured.

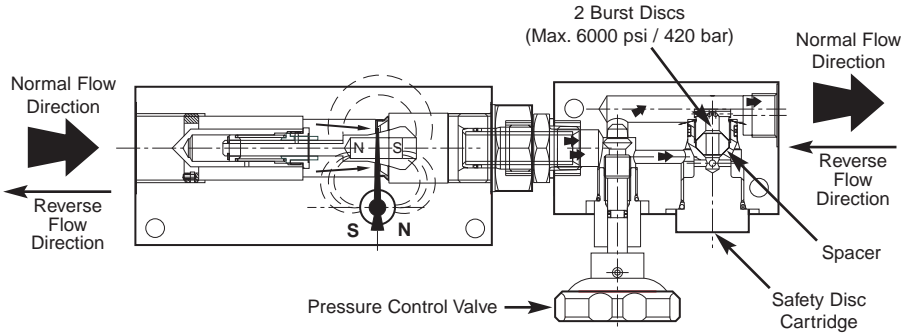
Instructions for using the Flow Test Kit:

1. Open loading valve by rotating counter-clockwise.
2. Start pump momentarily to ensure that oil flows freely through the hydraulic system, then run pump at maximum speed. Do not change pump speed while turning the loading valve.
3. Slowly close the loading valve to develop the desired pressure. Run the machine until normal operating temperature is reached i.e. typically 45 - 60°C (110 - 140°F).
4. Open the loading valve to read the flow at minimum pressure.
5. Close loading valve slowly to increase pressure and note reduction of flow as the pressure is increased to maximum pump pressure to determine pump condition.

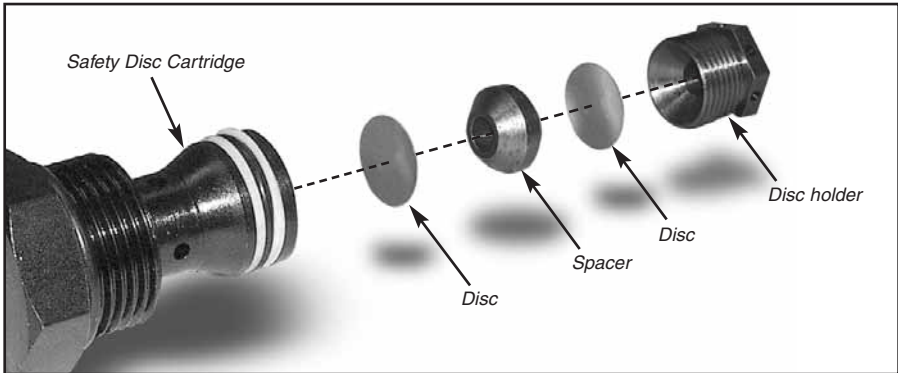
Typical Tests



Replacement of Safety Discs



1. Remove safety disc cartridge with a 1-3/8" AF spanner.
2. Remove the internal disc holder in the cartridge with an 11/16" AF spanner.
3. Remove the two spent discs and fit new discs, one on each side of the spacer.
4. Tighten disc holder to 40 lb. ft. (55 Nm).
5. Check the seal before you replace the entire cartridge assembly in valve body.



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