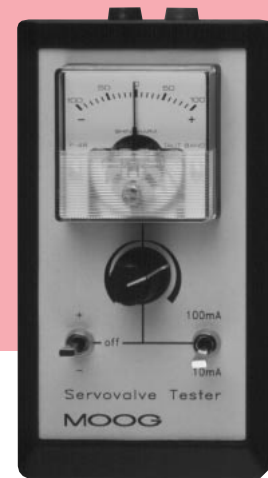


G040-119 Servovalve Tester

The Moog Servovalve Tester has been developed based on practical field experience to provide a useful aid in commissioning, servicing and troubleshooting control systems that use servovalves and pump stroker valves with mechanical feedback. It is usually an advantage to separate the hydraulics (servovalve) from the electronics.

To do this, simply remove the valve connection and connect the cable (A48114-150) from the Moog tester. The servovalve can then be operated and checked completely independently of the system electronics. In this way you can determine whether problems, such as null drift, unsuitable oscillations or failure to achieve maximum speed, are hydraulic or electronic.



SPECIFICATIONS

Outputs:

100 mA into 50 ohms
10 mA into 400 ohms

Battery:

PP3 9V Alkaline

Dimensions:

6.30 in. x 3.27 in. x 1.89 in.

Weight:

.59 lbs.
(including battery)

Connecting Cable:

P/N A48114-150
Series coil connection
Length 1500 mm
P/N A48700-150
Parallel coil connection
Length 1500 mm

Carrying Case:

For valve tester and cable,
Moog P/N B 96155

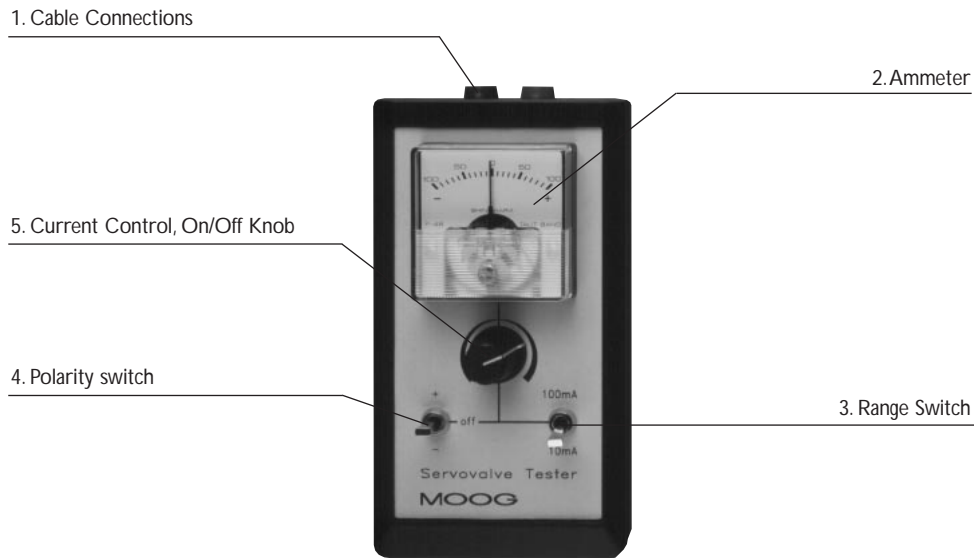
EMC:

CE Marked
EN 50082-1
EN 55011 1A
IEC 801-2
IEC 801-3

FEATURES

- Provides hydraulic test independent of electronics
- Battery operated
- Compact, lightweight design
- Carry case and cable
- CE marked

OPERATING DETAILS



1. Cable Connections:

Cable supplied with the valve tester is connected with red plus (+) blue minus (-). Cable P/N A48114 provides series coil connection at servovalve.

2. Ammeter:

Magnitude and polarity of current to the servovalve can be read. If there is a break in the current circuit (e.g. in the valve) the meter reads 'null' because no current can flow. If it is not clear whether the valve or tester is defective, the tester can be verified with the 'battery test', (see below).

3. Range Switch:

20 mA for valve with 400 ohm and 1000 ohm coils or when small signals are required. (For 1000 ohm coils connect to tester in parallel, ie standard cable unsuitable.) 100 mA for all other valve coils.

4. Polarity Switch:

2 position toggle switch:

- reverses polarity of current

A step change in the applied signal can be obtained by switching from plus (+) to minus (-).

5. Current Control, On/Off Knob:

Pull the knob to turn on the tester.

Current can be continuously adjusted from 0-100% with 100% corresponding to either 20 mA or 100 mA depending on the range selected. Zero current corresponds to the knob 'pointing' vertically up, with 0-100% in either polarity being achieved by rotating clockwise or anti clockwise (respective polarity being determined by polarity switch 4).

6. Battery Test:

Position the current control knob at 90° from null, put the polarity switch to plus (+), output range switch to 100 mA, short circuit the cable connections (1). If the battery is good, current exceeding 90 mA is registered.

7. Battery Replacement:

Remove rear cover for access.

Ordering information

Servovalve tester	G040-119
Carry case	B96155
Cable 1500 mm series	A48114-150
parallel	A48700-150

Kit B96634 includes:

- Tester
- Carry case
- Cable 1500 mm series

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