

MOBILE DIRECTIONAL CONTROL VALVE MODULE w/DIAGNOSTICS PACKAGE

DESCRIPTION

In addition to having the identical functionality as the MF100-MDCV, the MF100-MDCV-TS is equipped with an impressive troubleshooting package. Over 99% of maintenance technicians find it difficult or near impossible to pin-point a potential leakage path in a mobile directional control valve assembly, especially if it is equipped with integral valves such as cylinder port relief or anti-cavitation.

This usually leaves them with no other option than to discard the entire assembly and start over with a “clean sheet!” This practice is frustrating, time-consuming, and extraordinarily expensive. The MF100-MDCV-TS is designed to teach students how to pinpoint a potential leakage path inside a mobile directional control valve in a matter of minutes using the pressure/leak technique - with the power-unit safely locked out!

TARGET CLIENT

Technical colleges, universities, military training facilities, corporate technical training facilities, and owners of existing, FPTI™ and non-FPTI™ brand fluid power trainers/simulators.

TARGET AUDIENCE

Students who plan on a career in servicing, maintaining, repairing and troubleshooting mobile equipment, mobile equipment repair technicians, component rebuild technicians, and field service technicians.

LEARNING OBJECTIVES

The MF100-MDCV-TS mobile directional control valve module (with diagnostics package) will aid instructors in teaching students how to:

1. Test for leakage between the spool and bore in cases where a cylinder is drifting.
2. Test for leakage between the spool and bore in cases where a motor circuit is losing power and overheating when the directional control valve is activated.
3. Isolate a leakage problem to determine if its source is between the spool and bore and/or cylinder port/anti-cavitation valve.
4. Test for excessive leakage across the integral main pressure relief valve.



LIST OF COMPONENTS

The MF100-MDCV-TS module IS equipped with the following components:

1. Three-section, directional control valve (sectional configuration).
 - a. SECTION 1 & 2: 3-position, 4-way, tandem-center (cylinder spool), handlever-operated, spring-centered.
 - b. SECTION 3: 3-position, 4-way, float-center (motor spool), handlever-operated, spring-centered.
2. Four (4) cylinder port relief valves (adjustable).
3. Two (2) anti-cavitation valves.
4. Inlet section with integral main pressure relief valve (adjustable).
5. Outlet section with power-beyond capability (power-beyond plug included).
6. Five (5) troubleshooting “fault” switches.
7. Power ON/OFF light (illuminated when power is on).
8. “Zero-leak” flat-face quick-connect/disconnect valves.
9. 24VDC cord with plug-in receptacle.
10. Convenient, integrated spare O-ring holder.
11. Magnetic parts and tool holder.