

DESCRIPTION

In addition to having the identical functionality as the MF100-SVM, the MF100-SVM-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 stacked valve assembly.

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-SVM-TS is designed to teach students how to pinpoint a potential leakage path inside a “stack” in a matter of minutes using the pressure/leak technique - with the power-unit safely locked out!

TYPICAL APPLICATIONS

Process machinery, packaging machines, production machines, plastic injection molding machines, mobile machinery, assembly lines, steel and timber mills, theme and amusement parks, etc.

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 industrial and mobile equipment, industrial equipment repair technicians, component rebuild technicians, and field service technicians.

LEARNING OBJECTIVES

The MF100-SVM-TS stacked 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 an actuator (cylinder or motor) 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 one or more of the circuit modules.
4. Test for excessive leakage across the integral main pressure relief valve.



LIST OF COMPONENTS

The MF100-SVM-TS module is equipped with the following components:

1. Sub-plate 03 size.
2. Pressure relief valve in a circuit module configuration.
3. Cylinder port relief valve (adjustable) in a circuit module configuration.
4. Dual, adjustable one-way flow control valves in a circuit module configuration.
5. Dual pilot-operated check valves in a circuit module configuration.
6. Directional control valve - 3-position, 4-way, solenoid-operated, spring-centered, open-center, solenoid.
7. Five (5) troubleshooting “fault” switches.
8. 24VDC cord with plug-in receptacle.
9. Power ON/OFF light (illuminated when power is on).
10. All connections are with “zero-leak” flat-face quick-connect/disconnect valves. Connections are compatible with all connections on the MF 100 series simulators.
11. Convenient, integrated spare O-ring holder.