

STANDARD STACKED VALVE MODULE

DESCRIPTION

Stacked valves are commonly used in both industrial and mobile hydraulic systems. They are essentially “towers” which house the control circuits for cylinders and motors.

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 stacked valve module (standard) will aid instructors in teaching students the following:

1. Correct safety practices when working on and around stacked valve assemblies.
2. Advantages and disadvantages of “stacking” valves.
3. How to properly assemble a stacked valve assembly.
4. Why it is critical to maintain correct stacking order in a stacked valve assembly.
5. Correct bolt torques and tightening sequences for D03, D05, D07, D08, and D10 valves.
6. How to interpret the ISO/ANSI symbols for a stacked valve assembly.
7. How to read and understand the hydraulic schematic for a typical stacked valve assembly.
8. How to set a pressure relief valve when it is integrated in a stacked valve assembly.
9. How to set actuator port relief valves in a stacked valve assembly.
10. How to set flow control valves in a stacked valve assembly.
11. How to replace O-rings in a stacked valve assembly.



LIST OF COMPONENTS

The MF100-SVM 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. All connections are with “zero-leak” flat-face quick-connect/disconnect valves. Connections are compatible with all connections on the MF 100 series simulators.
8. Convenient, integrated spare O-ring holder.