

# MF100-PDCV-L



## PROPORTIONAL DIRECTIONAL/FLOW CONTROL VALVE MODULE

### DESCRIPTION:

The MF100 series simulators are designed to grow with your training needs and your training budget.

The MF100-PDCV Proportional Directional/Flow Control Valve Module is just one of the many modules, which can be added to the MF100 series simulator to increase its already impressive teaching and learning capability.

Combined, the components on the Proportional Directional/Flow Control Valve Module and the MF100 series simulators allow instructors to teach, and students to learn, all facets of Proportional Directional/Flow Control Valve operation and circuit application, and amplifier parameter adjustment.



FPTI™'s training modules are easy to install and integrate seamlessly into any mainframe series simulator. They also feature the same aesthetics and exceptional durability as the renowned mainframe simulators, and, they are very affordable.

The Proportional Directional/Flow Control Valve Module consists of the following components:

1. 2-position, 4-way, proportional solenoid controlled closed-center directional/flow control valve.
2. Amplifier.
3. Joystick controller (linear potentiometer).
4. Color-coded electrical wires with banana clips.
5. Fuse.
6. Aluminum, self-contained cabinet finished with a durable powder-coat with removable acrylic back cover.
7. Anodized, brushed aluminum front-plate with screen-printed identification symbols and color-coding.
8. Integrated drip-tray with Dri-Dek mat, and oil drain (oil drains into mainframe drip tray where it returns to the reservoir).

9. Appropriate warnings and cautions.
10. All hydraulic components are fitted with high-quality quick-connect/disconnect valves.
11. All quick-connect/disconnect fittings are flat-face style to reduce oil loss.

FPTI™'s simulator design philosophy is simple: make the "hands-on" learning experience "real-time" rather than "simulated," and NEVER alter component port identification for the purpose of teaching or learning.

This approach makes the transition from the classroom to the workplace seamless and, more importantly, safe!



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**The following items are included with the MF100-PDCV Proportional Directional/Flow Control Valve Module:**

- Full-color PowerPoint™ presentation in CD format (PC & Mac compatible)
- Student workbook featuring trainer activities.
- Instructor's manual

## **Exceptional quality and durability -**

When we say "handcrafted with pride in America," we mean it! Simulators built by FPTI™ will add class to any classroom, and will provide years of trouble-free operation.

- FPTI™ uses only the very best materials.
- All painted components are finished in high-quality, powder-coat for exceptional durability.
- Front plates are brushed and anodized.
- All markings and symbols are applied using state-of-the-art imaging and an exceptionally durable application process.
- All welding conforms to industry standards and welds are made by certified welders.
- To enhance safety, all components are designed and positioned to minimize oil dripping to the floor.
- Self-contained oil-drip trays are designed to eliminate unsightly accumulation and the ritual of daily clean-up. Trays have drains, which route oil directly to the reservoir.
- All quick-connect/disconnect valves are equipped with flat-face style connectors to reduce the amount of oil drip during connecting of hoses.

## **Shipping Specifications:**

Shipping weight: 35 lbs. (15.9 kgs.)  
Shipping dimensions: 21" tall x 17" wide x 8" deep  
(533mm x 432mm x 203mm)

## **Safety is the nucleus of FPTI™'s simulator design -**

Classrooms must be incubators for a safe workforce. FPTI™ simulators are designed to operate safely, and to teach students how to work safely with hydraulics.

## **Here are some of the MF100 simulator's impressive safety features:**

**Component port markings -** All oil entry/exit ports on components are marked in accordance with the respective manufacturers markings - either letters or numbers.

**International symbols -** All components are identified with their respective international symbols, which meet ANSI (American National Standards Institute) standards.

**Minimize oil spillage -** When quick-connections are made, there is usually a small amount of leakage. It is important to keep the leakage off the floor to avoid potential slip hazards.

Oil containment is essential to good simulator design. The MF100 series simulators feature drains, which are located on either side of the oil drip-tray. The drains prevent a build-up of oil while the simulator is in use.

The Proportional Directional/Flow Control Valve Module has an integrated drip tray with a drain, which allows the leakage to drain into the tray on the mainframe simulators.



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