

MF100-B Series



BASIC HYDRAULICS SIMULATOR

DESCRIPTION:

Introducing a hydraulic training system with one potential limitation . . . your imagination!

The MF100-B is the most versatile, functionally interactive, fluid power training system on the market for a number of very convincing reasons:

1. Interactive Learning Center:

The MF100-B is designed to help students learn all aspects of hydraulics that includes: basic hydraulic principles and laws, how hydraulic components work, how hydraulic components interact, hydraulic symbols, and problem solving skills.

2. Capability:

Use the student workbook and build any number of operating systems. See how components work, how they interact. Conduct performance comparison evaluations. Learn how to effectively and safely use diagnostic apparatus.

3. User Friendly:

There's no need to spend hours preparing an instructor or student workbook. We have done all the work for you. The workbook has 12 trainer activities, containing numerous questions and tasks related to that particular activity. PowerPoint™ CD-Rom (Mac & PC compatible) containing the entire workshop program are included with the trainer.

4. No Product Bias:

Unlike hydraulic component manufacturers who build training simulators using only their components to promote sales, we are free to apply a range of components that will help you learn and best fit your needs.



(Simulator may vary from model shown)

5. Built-in Safety:

All moving parts are protected with strong, fabricated, transparent tubes. All connections are made with flat-face seal, quick-disconnect couplings.



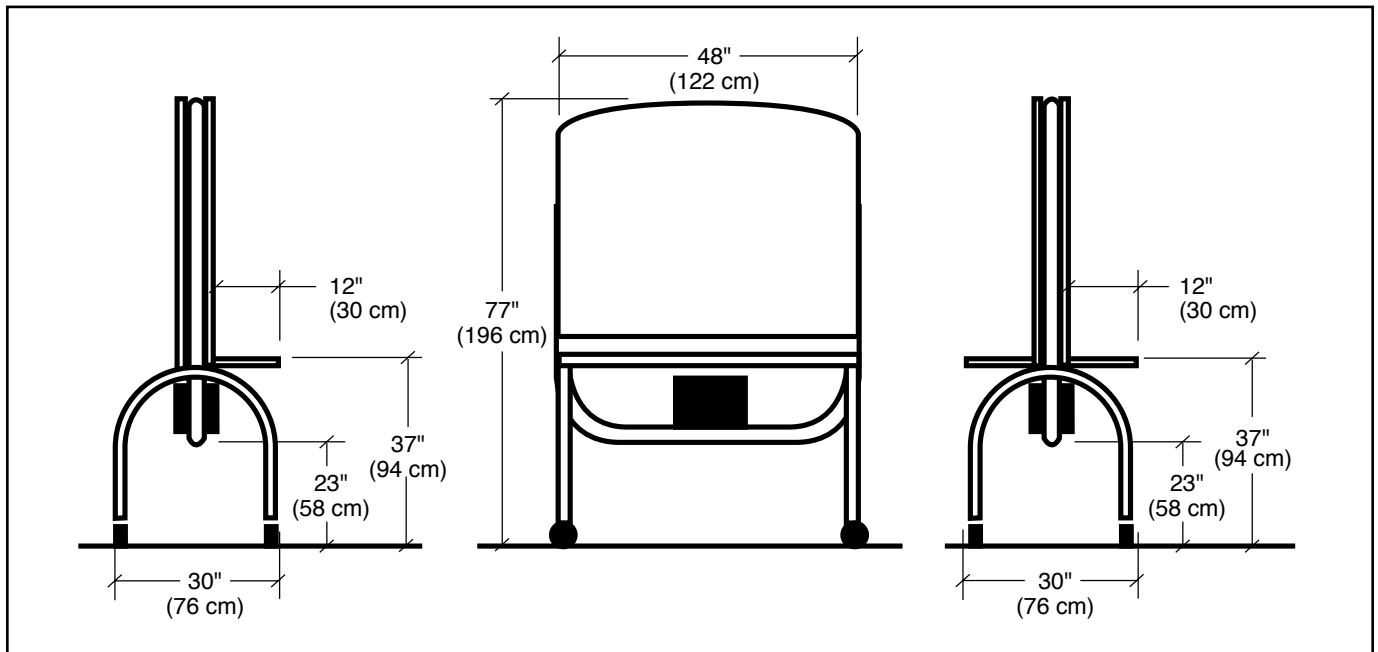
MFI00-B Series

The following items are standard on the model MF100-B Series Basic Hydraulics Simulator:

1. All-steel, uni-frame design with tubular construction
2. All non-flexible transmission lines made from stainless steel tubing with Swagelok- type connections
3. All steel parts finished in high-quality powder coating
4. Four-wheel, heavy-duty casters with wheel locks
5. 4.5 Gallon (17.0 liter) hydraulic reservoir on frame
6. 1HP, 120V, single-phase, electric motor – operates on a single 20-amp circuit
7. Gear pump – 1 GPM (3.785 Lpm), 1000 PSI (69 bar)
8. Pressure Control Valves:
 - a) Direct-operated pressure relief valve
 - b) Pilot-operated pressure relief valve with remote option
 - c) Sequence valve
 - d) Pressure reducing valve
9. Directional Control Valves:
 - a) 3-position, 4-way, open-center, handlelever-operated directional control valve
 - b) 3-position, 4-way, tandem-center, solenoid-operated directional control valve
10. Flow Control Valves and Flow Dividers:
 - a) Needle valve
 - b) One-way flow control valve
 - c) Restrictor-type pressure-compensated flow control valve
11. Check valve (conventional in-line)
12. Actuators:
 - a) Double-acting, single-rod cylinder
 - b) Double-acting, double-rod cylinder (model MF100-B does not include load capability)
13. Hydraulic hoses with quick-disconnect fittings:
 - a) Six (6) 24" hoses - Twelve (12) 40" hoses
 - b) Two (2) hose connectors - to extend hose length
14. Six (6) "T" assemblies
15. Two (2) in-line flow meters
16. Three (3) Glycerine-filled, Bourdon tube pressure gauges (0 – 1000 PSI)
17. Digital tachometer
18. Digital oil temperature gauge
19. Digital ambient temperature gauge
20. Electronic stopwatch with auto retract
21. Ammeter
22. Return-line, spin-on/off filter with by-pass indicator
23. Oil level sight glass
24. Oil reservoir filler/breather located in drip tray to prevent spilling
25. Motor on/off switch with thermal protection
26. One (1) joystick controller for solenoid-operated directional control valve
27. All moveable parts that create pinch points are covered with transparent protective covers

MFI00-B Series

28. Swing-out/stow-away hose caddy, which holds all hydraulic hoses and "T's" neatly. Quick-disconnects are conveniently held in upright position to prevent oil leakage.
29. Front panel is fabricated out of 3/16" brushed aluminum. All components are clearly marked with their respective symbols silkscreened onto the aluminum panel for a lifetime finish.
30. 24 VDC receptacles - Two (2) model MF100B-S - *single-station unit*
Four (4) model MF100B-D - *double-station unit*
31. Flex Plate allows the addition of numerous optional valves to be used on the simulator.



Specifications:

Standing weight: Double: 1125 lbs. (510 kgs.) Single: 850 lbs. (386 kgs.)
(does not include crate and packaging weight)

Simulator dimensions: 75.5" tall x 48" wide x 30" deep
(192 cm x 122 cm x 76 cm)

Warranty:

FPTI™ warrants its products against defect in materials or workmanship for a period of two years from date of delivery.



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