Hydraulics Simulation Software (LVSIM®-HYD)
6385-00
General Description

The Hydraulics Simulation Software (LVSIM®-HYD) from LabVolt was replaced by FluidSIM, the world's leading circuit diagram design and simulation program for pneumatics, hydraulics, and electrical engineering.

- FluidSIM

Click on the link for more information about FluidSIM (topic coverage, license options, etc.) and download a demo version.

Please note that the license option listed below are shown for information purposes only:

Features

LVSIM®-HYD enables students to perform the following tasks using a computer:

- Install, move, and remove hydraulic components and electrical control devices.
- Modify or remove connections at any time.
- Zoom in or out to adjust the view.
- Perform flow, pressure, force, velocity and rotation speed measurements.
- Observe motor rotation, as well as the extension and retraction of cylinder rods.
- Observe fluid flow inside hydraulic components.
- Save and restore equipment setups (including the virtual classroom laboratory environment).
Hydraulics Equipment

The following components from the actual Hydraulics Training System are simulated in LVSIM®-HYD:

- Work Surface
- Power Unit
- Directional Valve, Lever-Operated
- Flow Control Valve
- Relief Valve
- Pressure-Reduction Valve
- Directional Valve, Double-Solenoid Operated
- Directional Valve, Single-Solenoid Operated
- Sequence Valve
- Flow Control Valve, Pressure Compensated
- Check Valve
- Double-Acting Cylinder, 2.5 cm Bore
- Double-Acting Cylinder, 3.8 cm Bore
- Bidirectional Motor and Flywheel
- Pressure Gauge
- Flowmeter
- DC Power Supply
- Push-Button Station
- Limit-Switch Assembly
- Relay
- Time-Delay Relay / Counter
- Pilot-Lamp Station
- Pressure Switch
- Magnetic Proximity Switch
- Diffuse Reflective Photoelectric Switch
- Loading Device
- Manifold

Computer Requirements

A currently available personal computer running under one of the following operating systems: Windows® XP, Windows® Vista, Windows® 7, and Windows® 8.

List of Available Training Systems

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- 1-1 Familiarization with the Hydraulics Trainer
- 1-2 Demonstration of Hydraulic Power
- 2-1 Pressure Limitation
- 2-2 Pressure and Force
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- 2-4 Work and Power
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Electrical Control of Hydraulic Systems (Student Manual) (584188 (31228-00))
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• 4-4 Multi-Pressure System
• 4-5 Rapid Traverse-Slow Feed System
• 5-1 Troubleshooting Electrical Control Circuits
• 5-2 Troubleshooting Electrically Controlled Hydraulic Systems
Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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