

Hydraulics Simulation Software (LVSIM[®]-HYD)

6385-00



LabVolt Series

Datasheet

Table of Contents

General Description _____	2
Features _____	2
Hydraulics Equipment _____	3
Computer Requirements _____	3

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-Reducing 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.

Description

**Manual
number**

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.

Festo Didactic reserves the right to make product improvements at any time and without notice and is not responsible for typographical errors. Festo Didactic recognizes all product names used herein as trademarks or registered trademarks of their respective holders. © Festo Didactic Inc. 2021. All rights reserved.

Festo Didactic SE

Rechbergstrasse 3
73770 Denkendorf
Germany

P. +49(0)711/3467-0
F. +49(0)711/347-54-88500

Festo Didactic Inc.

607 Industrial Way West
Eatontown, NJ 07724
United States

P. +1-732-938-2000
F. +1-732-774-8573

Festo Didactic Ltée/Ltd

675 rue du Carbone
Québec QC G2N 2K7
Canada

P. +1-418-849-1000
F. +1-418-849-1666

www.labvolt.com

www.festo-didactic.com