



a division of Workholding Technologies, Inc.

**OPERATING MANUAL
FOR
VACUUM SAFETY SYSTEM**



**SERIES
VSS-E-DVG-BL-FHold**

1.0 SAFETY INSTALLATION

Before opening this unit or any Vac-U-Lok electrical equipment, ensure the power cord has been unplugged. Once unplugged, attempt to turn the unit "on" to ensure the power has been disconnected from your Vac-U-Lok product. If the unit turns "on", be sure to unplug the correct power cord and repeat this step.

As stated in OSHA:

1910.335(a)(2)(i)

"When working near exposed energized conductors or circuit parts, each employee shall use insulated tools or handling equipment if the tools or handling equipment might make contact with such conductors or parts. If the insulating capability of insulated tools or handling equipment is subject to damage, the insulating material shall be protected."

2.0 INTRODUCTION

Thank you and congratulations on your purchase of a new
Vac-U-Lok Digital Vacuum Safety System!

Vac-U-Lok's products are engineered and manufactured to improve your company's performance and productivity in the short-term as well as the long-term. This operating manual is designed to assist you in the installation and maintenance of your VSS-E-DVG-BL-FHold.

VSS-E-DVG-BL-FHold, Economical Vacuum Safety System with a Vacuum Gauge and an Alarm Buzzer & Light. The unit comes complete with a digitally adjustable low vacuum safety sensory that can be set via a digital LCD display. In addition, the digital sensory has an hysteresis setting to avoid "chattering" (bouncing back and forward between the low vacuum setting). The digital display is fastened to a NEMA 12/13 mountable enclosure and a ¼ hose barb with approximately twenty (20) feet of vacuum hose to tie into the vacuum line (near the vacuum chuck). The unit operates on 115V, single phase power and has one (1) selector switch for the digital vacuum gauge operation as well as the engagement of the vacuum safety system operations, which has an alarm buzzer and rotating red light to indicate a loss in vacuum pressure. The unit has a by-pass to the alarm and light when the vacuum workholding system is not in use n your machine during your work piece set-up. The unit has two (2) three (3) wire connections that interfaces to the machine tool Feed Hold. (This unit is recommended for a single vacuum line only)

Digital Switch Buttons

- **Up Arrow** - Used to increase the value on screen or change selection.
- **Down Arrow** - Used to decrease the value on screen or change the selection.
- **Middle Button** - Used to select/save the current selection on screen or enter settings.

3.0 QUICK ADJUSTMENTS

Start by pressing the middle button once. The screen will display 1-H, this number must always be 1 lower than 1-L. Use either arrow key to change 1-H to the desired value. Press the middle button once again. The screen will display 1-L this number must always be 1 higher than 1-H. Use either arrow key to change 1-L to the desired value. By pressing the middle button the screen should read 2-H set this to -2 then press the middle button again and the screen will read 2-L this should be -15 (2-H and 2-L should be left alone and always be at these settings. The switch is now adjusted.

4.0 RESTORING VAC-U-LOK'S DEFAULT SETTINGS

Press and hold the middle button until the screen reads ot1, select “Hys”



Press the middle button once

The screen will read ot2, select “Hys”



Press the middle button once

The screen will read “noC”, select “1C2o”



Press the middle button once

The screen will read Spd, set the value to “2”



Press the middle button once

4.0 RESTORING VAC-U-LOK'S DEFAULT SETTINGS (Continued)

The screen will read Clr, select “6-on”



Press the middle button once

The screen will read Unt, “select inHG”



Press and hold the middle button until you see the **home screen**

Press and hold the middle button until the screen reads “Pro”



Press the middle button once

The screen will read Sub, select OFF



Press the middle button once

The screen will read dSP, set the value to 100



Press the middle button once

4.0 RESTORING VAC-U-LOK'S DEFAULT SETTINGS (Continued)

The screen will read HyS, set the value to “1”



Press the middle button once

The screen will read PuS, select “OFF”



Press the middle button once

The screen will read dPY, “select oUt1”



Press the middle button once

The screen will read Cod, **ignore this setting.**



Press the middle button once

The screen will read Cpy, **ignore this setting.**



Press the middle button once

4.0 RESTORING VAC-U-LOK'S DEFAULT SETTINGS (Continued)

The screen will read Asu, select "OFF"



Press and hold the middle button until you see the home screen.

At this point, if the directions were followed correctly, your Digital Vacuum Switch will be at Vac-U-Lok's default settings.

5.0 TECHNICAL INFORMATION

- Main Power Source: 110VAC
- Digital Switch: 24VDC
- Transformer: 110VAC to 24VDC
- Buzzer & Light: 110VAC
- Fuse: 1 Amp

6.0 CONTACT US

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