AMS™ ValveLink® Software Quick-Start Guide
Table of Contents

Quick-Start for ValveLink Solo for HART® Instruments ........................................ 1-1

Quick-Start for ValveLink Solo for FOUNDATION™ fieldbus Instruments ............... 2-1

Quick-Start for AMS ValveLink SNAP-ON .................................. 3-1

Quick-Start for ValveLink SNAP-ON for DeltaV ........................................... 4-1

Quick-Start for ValveLink PLUG-IN for PRM ........................................... 5-1

AMS™ ValveLink® Software Toolbar Buttons and Icons .............................. 6-1

AMS™ ValveLink® Software Help ........................................... 7-1
Note

Neither Emerson, Emerson Process Management, nor any of their affiliated entities assumes responsibility for the selection, use, and maintenance of any product. Responsibility for the selection, use, and maintenance of any product remains with the purchaser and end-user.
Section 1  

Quick-Start for ValveLink Solo for HART® Instruments

This section contains quick-start information for ValveLink Solo connected to HART® communicating instruments through a HART modem. Information about connecting HART multiplexers is available in the AMS™ ValveLink® Software Installation Guide. For more information on using ValveLink Solo, see the AMS ValveLink Software help. For information on using the AMS ValveLink Software toolbar buttons, see section 6. Section 7 of this quick-start guide provides information for using AMS ValveLink Software help.

This section assumes ValveLink Solo is installed. The AMS ValveLink Software Installation Guide provides detailed installation information.
Step 1: Attach the HART modem to the computer

---

**Note**

If you do not have a HART modem or FIELDVUE® digital valve controller available, proceed to Step 3.

---

Attach the HART modem to the serial port (COM port) selected during installation.

**Step 2:** Attach the HART modem to the FIELDVUE instrument

![Figure 1-1. Instrument Connections](image)

- Clip the HART modem leads to the FIELDVUE instrument TALK terminals.
- Apply 4–20 mA power to the FIELDVUE Instrument LOOP + and – terminals.
Step 3: Start ValveLink Solo

![Figure 1-2. Starting ValveLink Solo](image)

Click the Start button. From the Start menu select Programs>ValveLink>ValveLink.

Step 4: Log in

![Figure 1-3. Logging in as MANAGER.](image)

Log in to ValveLink Solo with

- **User Name:** MANAGER
- **Password:** FALCON

Click OK.
Note

For full access to ValveLink Solo features you must discontinue use of the default name and password. Create security groups and assign new user names and passwords, then logout and login as a new user.

Step 5: Add a New Security Group

From the ValveLink Solo menu bar, select:
Customize ValveLink>Security Groups. 
Click the Add New Group button.

Type a name for the new security group, then click the OK button.
Figure 1-7. Assigning Privileges to the New Security Group

Select the privileges accessible to this group and click OK.
Step 6: Add a New User Account

From the menu bar, select: Customize ValveLink>Users.

Click the Add New User button.
Type in a user name and password. Then type the password again to verify it. Click OK.

Click on the new user name to highlight it. Click the list box arrow to the right of the Security Group box and select the desired security group. Click OK.
Step 7: Log Out

Figure 1-12. Selecting Exit/Log Out

From the ValveLink Solo menu bar, select: Tag>Exit/Log Out.

Figure 1-13. Logging Out

Click the Log Out button.
Step 8: Log In as a New User

Click the ValveLink Solo Log In button.

Enter your user name and password. Click OK.
Step 9: Double click on the valve symbol to open the Status diagnostic

When ValveLink Solo starts up, it displays the connected devices in the left pane of the window (Device Connection View).

Double click on the valve symbol to open the Status Diagnostic.

---

**Note**

If you do not see a valve symbol, you may not be connected to a FIELDVUE instrument. Recheck Step 1 and Step 2, then right click on the HART modem symbol and select Scan for New.
Step 10: Click the Start Monitoring button to begin monitoring instrument and valve parameters.

Figure 1-17. Start Monitoring
Section 2  

Quick-Start for ValveLink Solo for FOUNDATION™ fieldbus Instruments

This section contains quick-start information for ValveLink Solo connected to a single FOUNDATION™ fieldbus instrument. For more information about connecting to a single instrument, or for information about connecting to an H1 segment, see the AMS™ ValveLink® Software Installation Guide. For more information on using ValveLink Solo see the AMS ValveLink Software help. For information on using the AMS ValveLink Software toolbar buttons, see section 6. Section 7 of this quick-start guide provides information for using AMS ValveLink Software help.

Communicating with FOUNDATION fieldbus instruments requires that ValveLink Solo be installed on a personal computer along with the National Instruments NI-FBUS hardware and software. This section assumes ValveLink Solo and associated National instruments hardware and software are installed. The AMS ValveLink Software Installation Guide provides information for installing these components.
Step 1: Connect the computer to a FOUNDATION fieldbus digital valve controller

Figure 2-1 shows how to connect to a single instrument with a fieldbus power hub (Relcom part number FCS-PH, or equivalent). The power hub provides a power supply and double terminator. Up to four devices can be connected to the Relcom power hub. The computer with ValveLink Solo and NI-FBUS interface card is considered as one device. For more information on connecting to fieldbus instruments, see the AMS ValveLink Software Installation Guide.

Figure 2-1. Typical Connection to a Single FOUNDATION™ fieldbus Digital Valve Controller
Step 2: Start ValveLink Solo

Click the Start button. From the Start menu select: Programs>ValveLink>ValveLink.

When you start ValveLink Solo it will automatically start National Instruments Fieldbus (NI-FBUS) software. If ValveLink Solo is shutdown without properly exiting the software, NI-FBUS will continue to run. So, before starting ValveLink Solo be sure NI-FBUS software is shut down. ValveLink Solo will not start if NI-FBUS software is running. A blue box icon in the system tray in the lower right corner of the screen (figure 2-3) indicates when NI-FBUS software is running.
Step 3: Log in

![ValveLink Login](image)

**Figure 2-4. Logging in as MANAGER**

Login to ValveLink Solo with:
- User Name: MANAGER
- Password: FALCON

Click OK.

![NI-FBUS Startup Window](image)

**Figure 2-5. ValveLink Solo NI-FBUS Startup Window**

ValveLink Solo starts the NI-FBUS software. As NI-FBUS software initializes, the startup window, shown in figure 2-5, appears. Do not stop the initializing process so that ValveLink Solo may start up successfully. During this time, ValveLink Solo is “listening” to see if it is connected to a fieldbus segment controlled by a Link Active Scheduler (LAS). If it is, then it starts the NI-FBUS Communications Manager in the non-LAS mode and the process continues, as indicated by the box shown in figure 2-7.
If you are not connected to a segment where a Link Active Scheduler is running, ValveLink Solo starts the Communications Manager in the LAS mode as indicated in the window shown in figure 2-6.

Step 4: Click OK to continue the initializing process.

After ValveLink Solo Link Master Starting window disappears, the NI-FBUS startup window again appears temporarily to complete the initializing process. The last window states that NI-FBUS software is running and cautions you not to kill the process or the process will not be complete, as shown in figure 2-7.
Note

The Link Active Scheduler (LAS) controls traffic on the H1 segment. For an active H1 segment, the LAS function is provided by the host system or another FOUNDATION fieldbus device. When ValveLink Solo is connected (to either an active segment or a single instrument), the NI-FBUS interface card waits to see if the LAS is present. If not, the NI-FBUS interface card provides the LAS function. Therefore, to avoid conflict between the LAS function in the NI-FBUS interface card and LAS on the active segment, do not disconnect ValveLink Solo from a single instrument and connect it to an active segment without first shutting down the ValveLink Solo.

WARNING

To avoid personal injury or property damage due to loss of process control, do not connect the computer to an active H1 segment while ValveLink Solo or NI-FBUS software is running. Doing so could interfere with Link Active Scheduler (LAS) operation.
Note

For full access to ValveLink Solo features you must discontinue use of the default name and password. Create security groups and assign new user names and passwords, then logout and login as a new user.

Step 5: Add a New Security Group

Figure 2-8. New Security Group

From the ValveLink Solo menu bar, select: Customize ValveLink>Security Groups.
Figure 2-9. Security Groups Window

Click the Add New Group button.

Figure 2-10. Add New Group Window.

Type a name for the new security group, then click the OK button.
Select the privileges accessible to this group and click OK.
Step 6: Add a New User Account

From the menu bar, select Customize ValveLink>Users.

Click the Add New User button.
Figure 2-14. Add New User Window

Type in a user name and password. Then type the password again to verify it. Click OK.

Figure 2-15. Selecting Security Group

Click on the New User name to highlight it. Click the list box arrow to the right of the Security Group box and select the desired security group. Click OK.
Step 7: Log Out

From the ValveLink Solo menu bar, select:
Tag>Exit/Log Out.

Figure 2-17. Log Out Button

Click the Log Out button.
Step 8: Log In as a New User

Click the Log In button.

Enter your user name and password. Click OK.

Step 9: After NI-FBUS completes start up, double click the instrument icon to open its tag for the status monitor.

If a checkmark appears over the instrument symbol, it indicates ValveLink Solo is not connected to the instrument. A possible reason for not connecting may be that the instrument is at a temporary address. ValveLink Solo will not connect to an instrument at a temporary address.

If the instrument is at a temporary address, the Temporary Address window shown in figure 2-20 appears when you attempt to open the instrument tag. To change the device tag and address, click the Change Address button.

On the Change Device Tag and Address window, shown in figure 2-21, enter a working address for the device. Address 35 is
Figure 2-20. Digital Valve Controller at a Temporary Address. Click **Change Address** to change the Device Tag and Address.

Figure 2-21. Changing the Device Address

The device is at a temporary address. ValveLink will not connect to an instrument if it is at a temporary address.

preferred. However, if you are connected to an H1 segment, address 35 may be in use by another device. Select an unused address between 21 and 35. Click Set Address then click the Change Address button to assign the new address. When the address
changes, click the Done button. The instrument should be connected and you may proceed with instrument startup, calibration, and diagnostics.

When you attempt to log out or exit ValveLink Solo, if the instrument was at a temporary address when you started, the message shown in figure 2-22 appears. You may leave the instrument at the set address or allow it to return to the temporary address. Click No to keep the set address or Yes to return to a temporary address.
Step 10: Click the Start Monitoring button to begin monitoring instrument and valve parameters

Figure 2-23. Start Monitoring
Section 3

Quick-Start for AMS ValveLink SNAP-ON

This section contains quick-start information for AMS ValveLink SNAP-ON. For more information on using AMS ValveLink SNAP-ON see AMS ValveLink® Software help. Section 7 of this quick-start guide provides information for using AMS ValveLink Software help. For more information on using AMS Suite: Intelligent Device Manager, see the associated help.

This section assumes AMS Device Manager and AMS ValveLink SNAP-ON are installed. See AMS Device Manager documentation for installation information. The AMS ValveLink Software Installation Guide gives detailed installation information for installing the AMS ValveLink SNAP-ON.
CAUTION

Do not run ValveLink Solo at the same time you are using AMS Device Manager or AMS Device Manager with AMS ValveLink SNAP-ON.

Note

To successfully use AMS ValveLink SNAP-ON, you must be familiar with using AMS Device Manager.

Step 1: Start AMS

Figure 3-1. Enter the AMS™ System

Click a desktop icon or select AMS Device Manager from the Programs>AMS menu.

Step 2: Log in to AMS Device Manager
In the AMS User Login window, enter the correct Username and Password. Click OK to continue.

Continue on with Step 3 to select a HART device. Go to Step 5 to select a fieldbus device.
Step 3: Select a HART device

In the Device Connection View window, right click the communication devices (modem, multiplexer) icon and select Scan All Devices.
Step 4: Start AMS ValveLink SNAP-ON

Figure 3-4. Starting AMS ValveLink SNAP-ON (HART® Device)

Right click the instrument icon and select ValveLink from the context menu.
Step 5: Select a fieldbus device

In the Device View Connection window, right click the instrument icon and select SNAP-ON/Linked Apps > ValveLink from the context menu as shown in figure 3-5.
Section 4  Quick-Start for ValveLink
SNAP-ON for DeltaV

This section contains quick-start information for ValveLink SNAP-ON for DeltaV. For more
information on using ValveLink SNAP-ON for DeltaV see the AMS™ ValveLink® Software help.
Section 7 of this quick-start guide provides information for using AMS ValveLink Software help.
This section assumes ValveLink SNAP-ON for DeltaV is installed. The AMS ValveLink Software
Installation Guide provides detailed installation information.
To successfully use ValveLink SNAP-ON for DeltaV, you must be familiar with using DeltaV™ digital automation system.

Step 1: Start DeltaV

Click a desktop icon or select DeltaV Explorer from the DeltaV>Engineering menu.

Figure 4-1. DeltaV™ Explorer
Note

The DeltaV application does not require a user name and password. It starts immediately after you select DeltaV Explorer.

Step 2: Right click a connected valve icon

In the Device Connection View, open device icons by clicking once on each icon. Follow the path of connections until you locate a connected valve.
Step 3: Start ValveLink SNAP-ON for DeltaV

From the context menu, select Valve Diagnostics to start ValveLink SNAP-ON for DeltaV.
Section 5  

Quick-Start for ValveLink PLUG-IN for PRM

This section contains quick-start information for ValveLink PLUG-IN for PRM. For more information on using ValveLink PLUG-IN for PRM, see the AMS™ ValveLink® Software help. Section 7 of this quick-start guide provides information for using AMS ValveLink Software help.

This section assumes ValveLink PLUG-IN for PRM is installed. The AMS ValveLink Software Installation Guide provides detailed installation information.
Note

To successfully use ValveLink PLUG-IN for PRM, you must be familiar with using PRM™ software.

Step 1: Run the PRM application.
Step 2: Select a Fisher® fieldbus digital valve controller from the PRM system.
Step 3: Click on the PLUG-IN tab. Move the mouse cursor to the white list box, as shown in figure 5-1 and right-click. Select the Insert Control + Ins option.

Figure 5-1. PLUG-IN Tab
**Step 4:** Select ValveLink PLUG-IN Launcher from the Tool Name dialog box and click on the OK button.

![Figure 5-2. Tool Name Dialog Box](image)
Step 5: Select ValveLink PLUG-IN Launcher and click on execute to start ValveLink PLUG-IN for PRM.

Figure 5-3. Starting ValveLink PLUG-IN Launcher
This section describes the buttons and icons available on the AMS™ ValveLink® Software toolbar and tree views.

**Tool Bar Buttons**

Toolbar buttons are shortcuts to AMS ValveLink Software commands.

**Tag Button**—Opens the Tag Management window for locating a specific tag. From the Tag Management window you can open, modify, copy, or delete a selected tag. You can also print a report containing information from the listed tags.

**Create Report Button**—Create a report containing the currently open dataset.

**Print Button**—Prints information from the active window.
**Network Scan Button**—Opens the Network Alert Scan window and allows you to scan selected tags. Using the Setup button you can select which tags to scan and which alerts to scan for. Network Scan is only available on AMS ValveLink Software setup to communicate through HART multiplexers.

**Instrument Mode Button**—For DVC5000, DVC6000, and DVC2000 Series instruments, allows changing the instrument mode between In Service and Out of Service. For DVC5000f and DVC6000f Series instruments, allows changing the Analog Output block, Resource block, and Transducer block target mode to another of the permitted modes. A mode of Out of Service may be required to change a setup parameter, or to run a calibration procedure or diagnostic test.

**Control Mode Button**—For DVC5000, DVC6000, and DVC2000 Series instruments only. Changes the instrument control mode between Analog and Digital. Control mode defines where the instrument reads its set point. Choose Analog if the instrument is to receive its set point over the 4–20 mA loop. Choose Digital if the instrument is to receive its set point digitally via the HART communications link.

**Setup Wizard Button**—Starts the Setup Wizard to permit automatic setup and travel calibration of the instrument using specified actuator information.

**Detailed Setup Button**—Opens the Detailed Setup window for the open tag. Provides options for defining an instrument’s operating parameters. You can retrieve information from the AMS ValveLink Software database or from the instrument. You can also modify this data and save changes in the database or download them to the instrument.
**Calibration Button**—Opens the Auto Travel Calibration window for the open tag. Available only on software with calibration enabled. See the AMS ValveLink Software Help screen, About ValveLink, to see if calibration is enabled.

**Instrument Status Button**—Displays the Instrument Status window for the open tag. Provides device monitor, alert, and device information for an open tag.

**Step Response Button**—Opens the Step Response window for the open tag. Plots TRAVEL versus the TIME it takes to move the valve through the specified steps. Available only on software with step response enabled. See the AMS ValveLink Software Help screen, About ValveLink, to see if step response is enabled.

**Dynamic Scan Button**—For HART and fieldbus instruments, sets variables for running diagnostic tests, including input start and input end percentages and Scan time.

**Batch Runner Button**—Opens the Batch Runner dialog box to permit defining a batch process. With Batch Runner you can automate a user-selected group of operations to run on one or more instruments. Available only on software with batch runner enabled. See the AMS ValveLink Software help screen, About ValveLink, to see if Batch Runner is enabled.
**Trending Button**—For DVC5000, DVC6000, and DVC2000 Series instruments only. Displays operating parameter trends as they occur (live data), a parameter trend history (trend archive), and a valve travel histogram. Trend is set up from the Network Alert Scan window. Available only on software with trending enabled. See the AMS ValveLink Software Help screen, About ValveLink, to see if trending is enabled.

**Partial Stroke Ramp**—For DVC6000 Series instruments with instrument level SIS and ODV. Opens the tabbed pages for the partial stroke test for the unique conditions of a Safety Instrumented System (SIS) application.

**Performance Diagnostics**—Opens the tabbed pages for Performance Diagnostics. Available only on software with performance diagnostics enabled. See the AMS ValveLink Software Help screen, About ValveLink, to see if performance diagnostics is enabled.

**Scheduler**—Opens the Scheduler window. Scheduler allows you to run various types of tests at predefined intervals without user intervention. The resulting data is available for later viewing and analysis. Scheduler is only available for AMS ValveLink Software installations on which Batch Runner is licensed.
Treeview Icons
Valve icons on the device tree indicate the instrument service mode of the associated physical device.

There are three modes which are reflected in the treeview icons. Travel Control, Pressure Control and SIS. If the instrument is in Travel Control, all icons associated with it will be green. Pressure Control is indicated by blue icons, and SIS is indicated by orange icons. The following treeview icons are seen in each of the control modes.

- **Sliding Stem/Spring and Diaphragm Actuator - In Service**—Indicates that a sliding stem valve and a spring and diaphragm actuator are currently in service.

- **Sliding Stem Valve/Piston Actuator - In Service**—Indicates that a sliding stem valve and a piston actuator are currently in service.

- **Rotary Valve / Spring and Diaphragm Actuator - In Service**— Indicates that a rotary valve and a spring and diaphragm actuator are currently in service.

- **Rotary Valve / Piston Actuator - In Service**— Indicates that a rotary valve and a piston actuator are currently in service.
Out of Service—A bold yellow-on-black X over the lower right portion of the valve image indicates that the device is out of service.

Communications Problem—A red X over the lower right portion of the valve image indicates that an error has occurred during the last communication attempt with the device. Check the communications log and troubleshoot the problem.

Unknown Instrument Mode—A blue question mark over the lower right portion of the valve image indicates ValveLink has not yet read the instrument mode, and it is considered to be unknown.

Scheduled Task Running—A valve image with a stopwatch indicates that ValveLink is currently running a scheduled task with this device.
This section describes the AMS™ ValveLink® Software help. The AMS ValveLink Software help system provides step-by-step procedures for working with AMS ValveLink Software features. For every AMS ValveLink Software window, the help system defines edit fields, parameters, and buttons. The Glossary provides quick pop-up definitions.
Accessing Help

To access help you can:
Click the Help button on any window,

![Diagram of the Help button on a window](Figure 7-1. Help Button)
select an option from the Help menu,

or press F1.

Figure 7-2. Help Options
Using the Glossary

When you need a quick definition of a term, an edit field, or instrument parameter, use the Glossary.

Step 1: Access AMS ValveLink Software help by selecting Contents from the Help menu

Figure 7-3. Help Menu
Step 2: Click Glossary button in the Contents tab

Step 3: Click an alphabetic button to narrow your search

Step 4: Scroll through the terms listed until you find the word you’re looking for

Step 5: Click the term to open a pop-up definition

Step 6: Click again to close the pop-up definition
Finding Help Topics

For detailed information about a particular topic, you can:

Select a Topic from the Help Contents

The Contents are similar to the table of contents in a paper manual. Find an entry that interests you then click its title.

Figure 7-5. Help Contents
For information, contact your local Emerson Process Management sales office or local business partner. Visit www.Fisher.com

**NORTH AMERICA**
Emerson Process Management
Marshalltown, Iowa 50158  USA
T 1 (641) 754-3011
F 1 (641) 754-2830

**LATIN AMERICA**
Emerson Process Management
Sorocaba, Sao Paulo 18087  Brazil
T +(55)(15)238-3788
F +(55)(15)228-3300

**EUROPE**
Emerson Process Management
Cernay 68700 France
T +(33)(0)3 89 37 64 00
F +(33)(0)3 89 37 65 18

**MIDDLE EAST & AFRICA**
Emerson FZE
Dubai, United Arab Emirates
T +971 4 883 5235
F +971 4 883 5312

**ASIA PACIFIC**
Emerson Process Management
Singapore 128461 Singapore
T +(65) 6777 8211
F +(65) 6777 0947

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.

Neither Emerson, Emerson Process Management, nor any of their affiliated entities assumes responsibility for the selection, use and maintenance of any product. Responsibility for the selection, use and maintenance of any product remains with the purchaser and end-user.

©Fisher Controls International LLC 2002–2006; All Rights Reserved