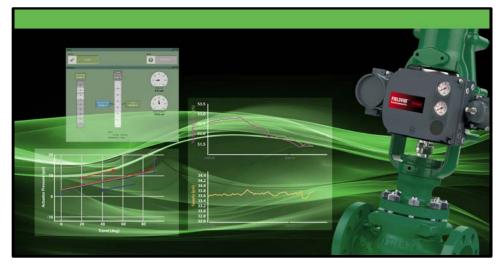
ValveLink[™] Software



ValveLink[™] Solo ValveLink[™] SNAP-ON[™]

ValveLink[™] DTM ValveLink[™] PLUG-IN for PRM[®]

- Communicate with both HART® and FOUNDATION[™] Fieldbus FIELDVUE[™] digital valve controllers
- Configure, calibrate, and diagnose FIELDVUE instruments from one location
- Use Stabilize & Optimize and Performance Tuner to easily optimize tuning
- Performance Diagnostics provide in-service diagnostics for monitoring the health of the valve assembly without disturbing the process
- Diagnostics provide validation of assembly rebuild and detailed insight into the physical condition of the valve/actuator assembly
- Setup and test FIELDVUE instruments for Safety Instrumented System (SIS) Solutions
- Solenoid Valve Test to test and monitor the health of the solenoid connected to the valve assembly (SIS only)

- Scheduler allows you to specify a time and date to automatically run tasks on a regular basis
- Ability to preconfigure calibration and diagnostics in the workshop with Batch Runner or setup your own "Macro" file
- Time saving Concurrent Batch allows executing a diagnostic test or Calibration on multiple valves at the same time
- Merge Database feature provides the ability to automate multiple ValveLink databases and tags to a single or multiple stations
- ValveLink Express licensing allows you to obtain a free version of ValveLink software that allows FIELDVUE instrument setup, calibration and verification
- Generate diagnostic, calibration, and configuration reports in Microsoft[®] Word and PDF format



FISHER[®]

ValveLink Software Product Suite

ValveLink software is available in a variety of configurations to allow you to realize the full benefit of FIELDVUE digital valve controllers.

ValveLink Solo



ValveLink Solo permits users to perform configuration, calibration, and diagnostics on HART and FOUNDATION Fieldbus FIELDVUE digital valve controllers.

Integrate ValveLink software into AMS Device Manager



ValveLink SNAP-ON provides integration with AMS Device Manager to perform configuration, calibration, and diagnostics. Integration with AMS Device Manager provides the ability to communicate with FIELDVUE digital valve controllers via DeltaV[™], Ovation[™], PROVOX[™], HART multiplexers, and HART modems. Non-Emerson host integration, including Invensys and Honeywell (HART only) systems, can be provided through HSI (Host System Integration).

Integrate ValveLink DTM into Field Device Tool - FDT



ValveLink DTM provides integration into a Field Device Tool frame application to perform configuration, calibration, and diagnostics on FIELDVUE digital valve controllers. The ValveLink DTM is certified with the FDT group.

Integrate ValveLink Software into the Yokogawa Plant Resource Manager (PRM)

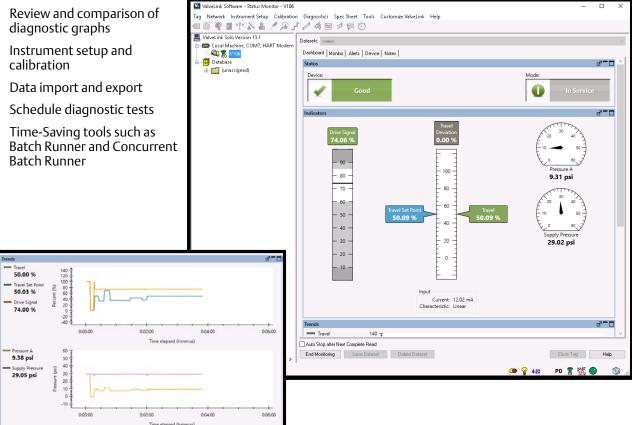


ValveLink PLUG-IN for PRM provides integration with the Yokogawa Plant Resource Manager (PRM). This integration provides PRM users with the ability to launch the ValveLink PLUG-IN for PRM directly from PRM and to communicate with HART and FOUNDATION fieldbus FIELDVUE digital valve controllers through PRM and the Yokogawa CENTUM CS 3000 R3 and CENTRUM VP.

Communicate with both HART and FOUNDATION fieldbus FIELDVUE digital valve controllers

Integrated or standalone ValveLink software remotely communicates with HART FIELDVUE instruments over the existing 4-20 mA signal wiring using the HART communication standard. The same software also can communicate with FOUNDATION Fieldbus FIELDVUE instruments over the fieldbus H1 segment. Information is presented in a consistent, easy-to-interpret interface that provides the capability to configure, calibrate, and diagnose FIELDVUE instruments from one location:

- Dashboard of critical instrument information
- A device connection view of all connected instruments
- Monitoring of instrument operational parameters and alerts, including Field Diagnostic alerts
- diagnostic graphs
- Instrument setup and calibration
- Data import and export
- Time-Saving tools such as **Batch Runner**



Trend Travel, Pressure, and Drive Signal

Field Diagnostic Alerts, which follow the NAMUR NE107 Standard, allow categorization of Device Alerts with the highest severity displayed on the dashboard.



Alert categorization

Status Monitor

Travel Deviation									
8	F/O								
	Travel Deviation	No							
- Travel L	Travel Limit								
874	🝲 Field Diagnostic Alert	F/C/O/M							
	\varTheta Travel Limit High High	Yes							
	Travel Limit Low Low	No							

Device alerts, such as Travel Deviation, are permanently mapped to a Field Diagnostic Alert in FOUNDATION Fieldbus applications. Multiple Field Diagnostic categories can be selected per Field Diagnostic Alerts.

Status Monitor

Alert Variable	Field Diagnostic	Status	
Travel Low Low	8	8	
Travel Low	V	8	
Alert Record Not Empty	\	8	
Configuration Changed		8	
SIS Hardware Failure	8	0	

HART applications allow one Field Diagnostic Category per Field Diagnostic Alert

Standalone ValveLink software can use the Emerson USB Fieldbus Interface, as well as the National Instruments (NI-Fbus) interface to connect to Fieldbus FIELDVUE instruments (DVC6200f and DVC6000f) to configure, calibrate, and diagnose the device on a bench or in the field:



Use the Performance Tuner to easily optimize tuning

The Performance Tuner lets you easily adjust a FIELDVUE digital valve controller for optimum performance. When mounting a FIELDVUE digital valve controller, to either a Fisher or a non-Fisher valve, the Performance Tuner can optimize valve performance for you.

Performance Diagnostics provide in-service diagnostics for monitoring the health of the valve assembly without disturbing the process

Performance Diagnostics (PD) provides predictive in-service diagnostics for monitoring the health of the valve assembly and customized diagnostics for advanced troubleshooting. Performance Diagnostics continuously analyze the valve assembly and passively gather data without disturbing or interrupting the control valve while it is in the process.

PD may be used to help detect problems with air leakage, valve assembly friction and deadband, instrument air quality, loose connections, supply pressure restriction, and valve assembly calibration. When a problem is identified, the diagnostic provides a description and severity of the problem, a probable cause, and recommended action.

In-service diagnostics for troubleshooting allow custom diagnostics to be set up to collect data at a high-frequency collection rate and present the data in a graphical format.

Tag Network Instrument Setup Calibration Diagnostics Spec Sheet Tools Customize ValveLink Help Image: Stratus Image: Stratus	nostic - V106	🚾 ValveLink Software - One Button Performance Diagnostic - '
Instrument Alert Record Performance Diagnostics PD One Button Database Performance Diagnostic Trends Profile Image: Configure SIS Triggers Triggered Profile Solenoid Valve Test Supply Pressure Configure SIS Triggers Relay Adjustment Local Control Panel Travel Deviation Dynamic Scan I/P and Relay Integrity Step Response Air Mass Flow Valve Friction Valve Friction	nostics Spec Sheet Tools Customize ValveLink Help Status Trend Instrument Alert Record Performance Diagnostic Trends Partial Stroke/Demand/Reset Solenoid Valve Test Configure SIS Triggers Local Control Panel Dynamic Scan Step Response Customize ValveLink Help PD One Button Profile Profile Triggered Profile Supply Pressure Relay Adjustment Travel Deviation I/P and Relay Integrity Air Mass Flow	Tag Network Instrument Setup Calibration Diagnostics Image: Status of the status of

Performance Diagnostics tests are available upon user request or a pre-selected daily, weekly, monthly, or yearly schedule without user intervention for HART instruments

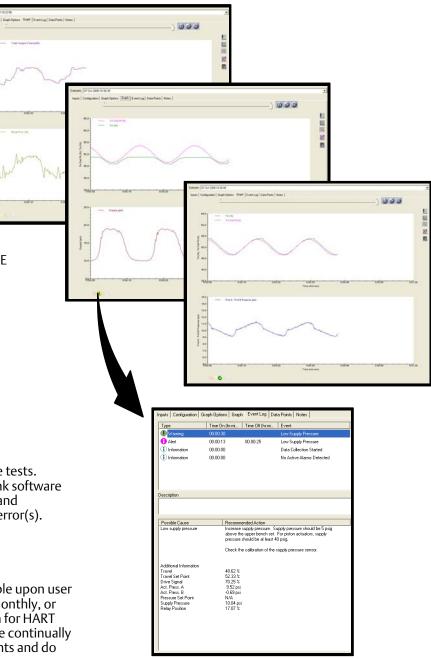
Performance Diagnostics are continually running in FOUNDATION Fieldbus Instruments and do not need to be initiated by ValveLink software

Provide Real-Time Notification of Current and Potential Valve and Instrument Problems using Performance Diagnostics

Performance Diagnostics enable the use of diagnostics while the valve is in-service and operating without disturbing the process. Tests can be performed to identify problems with the entire control valve assembly, such as:

- Red/Yellow/Green condition indicator provides a quick visual indication of the following:
- the physical condition of the FIELDVUE instrument pneumatic components
- instrument air supply pressure and volume
- relay adjustment on double acting piston actuators
- the total air received and used by the instrument, and
- why a valve assembly is deviating from the set point
- PD One Button is a sweep of the above tests. When the sweep is complete, ValveLink software will show any errors, possible causes, and recommended actions to resolve the error(s).
- Friction and Deadband Trending

Performance Diagnostics tests are available upon user request or a pre-selected daily, weekly, monthly, or yearly schedule without user intervention for HART instruments. Performance Diagnostics are continually running in Foundation Fieldbus Instruments and do not need to be initiated by ValveLink software.



Performance Diagnostics provide on-line/in-service predictive diagnostics to identify faults and list possible causes and recommended corrective actions for each fault

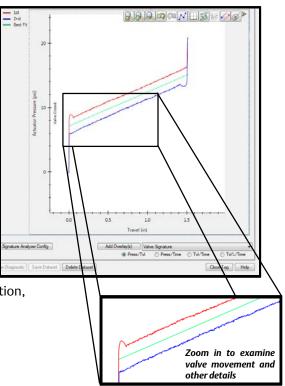
Provide validation of assembly rebuild and detailed insight into the physical condition of the valve/actuator assembly

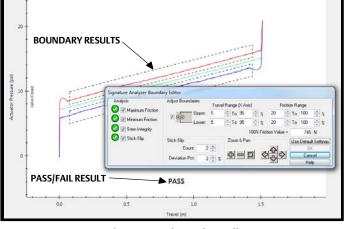
Performance Diagnostics monitor the digital valve controller set point and plot valve operation to provide insight into the dynamic performance of the valve/actuator assembly. Out-of-service diagnostics such as valve signature, dynamic error band, and step response assist in the identification of emerging valve problems quickly and accurately.

Use out-of-service diagnostics to prioritize and plan maintenance activities when the process is shut down.

The Valve Signature diagnostic is used to:

- Evaluate valve friction, deadband, and shutoff capability.
- Calculate actuator spring rate and bench set.
- Identify potential packing problems.
- Compare current condition to previous baseline condition.
- Signature Analyzer enables rapid analysis of the Valve Signature to more efficiently manage your plant assets. Based on default or user defined settings, Signature Analyzer provides pass/fail results for Maximum Friction, Minimum Friction, Stem Integrity, and Stick Slip, enabling better documentation for required maintenance or validation of valve repairs.





Signature Analyzer Boundary Editor allows you to use default or customized test criteria

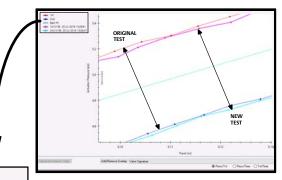
- 2nd

Best Fit

1st V106 20 Jul 2016 13:26:41

2nd V106 20 Jul 2016 13:26:41

The Dynamic Error Band diagnostic is used to analyze hysteresis, deadband, and dynamic error. Diagnostic tests, such as the Valve Signature Diagnostic example shown here, help you detect emerging valve



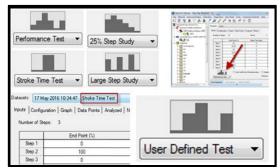
ValveLink software enables simultaneous multiple overlay of tests (up to ten). This allows you to trend valve history.

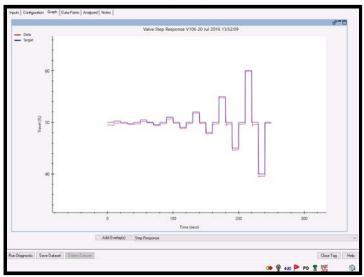
repair requirements before they impact performance

The Step Response diagnostic allows you to evaluate how well the valve tracks an input change. By minimizing dead time, deadband, and overshoot, process control is greatly enhanced. With the Step Response test you can:

- Validate tuning parameters.
- Obtain a numerical analysis for overshoot, hysteresis, dead time, t63, and t86.
- Define up to 30 steps.

Select pre-configured Step Tests to evaluate valve performance.



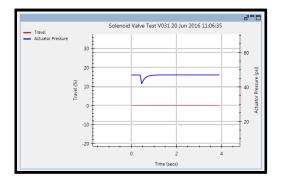


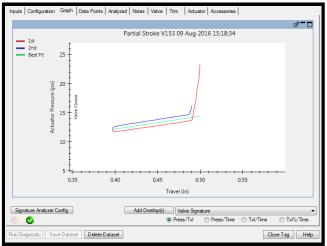
Use Step Response tests to verify instrument tuning and valve response to signal changes

Setup and test FIELDVUE instruments for Safety Instrumented System (SIS) Solutions

Use ValveLink software to set up and test the final control element in safety instrumented system applications. ValveLink software for DVC6200 SIS digital valve controllers provides:

- A Setup Wizard to set up the digital valve controller for use in a Safety Instrumented System.
- The capability to initiate a partial stroke test of the final control element without requiring a process shutdown. You can run a partial stroke test to prove the valve will respond on demand.





At the same time the instrument performs the partial stroke test, ValveLink software also gathers diagnostic data. Use this data to evaluate valve performance and determine if maintenance is required.

 ValveLink software enables the Solenoid Valve Test for SIS instruments. This is to verify that a solenoid used in conjunction with a DVC6200 SIS digital valve controller is operational.

Product Bulletin 62.1:ValveLink Software October 2017

Each PST will be scored as Red/Yellow/Green based on a user selection of acceptance (Abort or Abnormal) criteria and result criticality. This result will be shown as an indicator bulb on the graph and in the analyzed section as PST Result.

- Signature Analyzer that automates diagnostics results of Valve Signature and Partial Stroke diagnostic data. The Signature Analyzer uses a set of user configurable limits to help determine possible issues with the valve assembly, such as a broken shaft or stem.
- A Trigger event that allows you to log the "Safety Demand" event and reset valve stroke while storing pre-event and post-event data for additional valve diagnostics. Trip event data can also be accessed for an audit and presented to regulatory insurance authorities.

The Trigger functionality allows data to be collected and stored in the instrument. Trip event data can be accessed for an audit and presented as required. The trigger will initiate on-board data collection based on a change in actuator pressure, valve travel, input current, pressure differential, travel deviation, or travel cutoff. The data is retained in the event of a power loss.

Every event performed with ValveLink software is logged with a time and date stamp to document that tests were run and how the valve assembly responded.

- Diagnostic information to allow predictive maintenance of the final control element. No need to unnecessarily shutdown the process to perform maintenance on the safety shutdown valve.
- The capability to monitor the health of a solenoid valve downstream of the digital valve controller. This can improve safety reliability and provide assurance that the solenoid valve is not stuck in the open position.
- ValveLink Solo Event Messenger capability to send notification via email, pager, or cell phone if a specific alert, or set of alerts, occurs on a predefined set of safety shutdown valves.



	Inputs Trigger Thresholds Configuration Graph Options Graph Event Log D	ata Points Notes
	Collection Variables	
a	1. Act. Press. B	
1	2. Supply Pressure	 Enable trigger
	3. Input Set Pt	C Disable trigger
	4. Input Current	
	Collection Interval 100 msec.	
	- Trigger Events	
	Pressure A Pravel Input Current	Read Device
	Pressure B F Travel Deviation Pressure Differential F Travel Cutoffs	Apply
	Trigger Record	External Trigger
	Trigger Record Length 60 sec.	Start
	Trigger is active. Data available. Press the Read Trigger Data button to read data from the positioner. To clear the device data, oress the Clear Buffer button.	
		Clear Buffer

A Trigger event, based on one of eight process variables, documents a "Safety Demand" event when used in a safety instrumented system

VL	Event M	essenger Setup		×	
	Rule	Tag	Alert	E-mail Address	
	1	(all)	Travel High 🔹	John.Doe@www.com	
	2	(all)	Supply Pressure Low -	John.Dae@www.com	
	3	(all)	Travel Deviation -	John.Dae@www.cam	
	4	(all)	Drive Signal 🔹	John.Dae@www.com	
	5	(all)	Pressure Sensor Failure 🔹	John.Dae@www.cam	
	6		[C (all) Communication Errors Travel High Travel High Travel High High Travel Deviation Travel Deviation Travel Accument Travel Accument Travel Accument Drive Signal Cycle Court High Azer Input Watch Dog Timer RAM Falure	▲ shr.Doe@www.com	
	Insert	Rule Delete R	ule Cut Rule Copy F	ule Paste Rule	
	Alert Gro	ups		Save Cancel Help	

Scheduler allows you to specify a time and date to automatically run tasks on a regular basis

With Scheduler, you can schedule tasks, such as in-service Performance Diagnostics and SIS Partial Stroke diagnostics to run on a recurring daily, weekly, monthly, or yearly schedule that you specify. A summary of the outcome of scheduled tasks is available from within Scheduler and for complete details you can view the resulting diagnostic graphs and analyses.

Task Type: P	artial Stroke		•		
	artial Stroke				
	D One Button				
	alve Friction			Task Frequency	
- 0		/Demand/Reset Data	1		
Tag or Partial 1S	atus Monitor olenoid Valve Te	.et		Daily	•
	erge Databases	-34) Info	T: (041)	
				Time (24-hour)	: 03
Tags Found:				Every 1	day(s) at:
V003				00:03	12:03
V018				01:03	13:03
V034 V036				02:03	V 14:03
V052					
V073		·>		03:03	15:03
V104				04:03	16:03
V21 XCV-21713		<-		05:03	17:03
XV1314				06:03	18:03
XV1324				07:03	19:03
XV1334				08:03	20:03
				09:03	21:03
XV1344				10:03	22:03
XV1344 XV1354	-			11:03	23:03

Ability to preconfigure calibration and diagnostics in the workshop with Batch Runner or setup your own "Macro"

Batch Ri escriptio	unner - unti n:	tled						×
							Batch Report 📝	Report Options
Step	Tag	Task		Parameters	Time	Progress	Resu	t
1	V104	Upload Configuration	•		0:50	0%		
2	V104	Reset Clock	•		0:06	0%		
3	V104	Valve Sig/Total Scan	•	(-5, 105, 50,		0%		
4	V104	Step Response	-	(1, 0, 0, 10, 2	0:45	0%		
5		Auto Travel Calibration	-			0%		
		Clear Instrument Alert Record Download Spee Sheet Drive Signal Dynamic Erord Band Firmware Download Language Pack Download Language Pack Download Language Pack Download Language Pack Download Macto Po Doll Strukton Performance Tuner QuickReport						
Image: Step Cut Step Copy Step Paste Step Estimated Time: 551								
Open New Delete Save Save As Run Cancel Close Help								

Use Batch Runner to automate diagnostic tests and other repetitive activities

With Batch Runner you can setup ValveLink software to automatically run diagnostic tests, calibrate, or upload configuration data from multiple valves with a user specified routine. During a turnaround or production change, you can download firmware, upload configurations, run the Performance Tuner to optimize tuning, or even reset the instrument clock without any interaction by personnel.

Batch Runner increases efficiency by allowing you to set up a batch once, and repeatedly run that set of actions on different groups of valve assemblies.

Time saving Concurrent Batch Runner to run Signature test, Step-Response test, or Auto-Calibration on multiple valves at the same time

In addition to the Batch Runner, ValveLink software includes the time-saving Concurrent Batch Runner capability. This allows executing a diagnostic test or Auto-Calibration on multiple valves at the same time. The diagnostic results from the tested valves can be collected at the completion of the concurrent batch or at a later time after the tags have been put back "In-Service".

The Concurrent Batch Runner is a 2-part process:

- 1. Executes diagnostic or calibration on multiple valves simultaneously, then,
- 2. the follow up batch uploads the diagnostic results in ValveLink software either during current outage or once valves are back "In-Service".

Spec Sheet	Tools Customize ValveLink Help
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Scheduler
	Batch Runner
	Concurrent Batch Runner
FISHER	Audit Log Viewer
UserID :v	Clear Spec Sheet from Device
OSELID . V	Pressure Control Panel
	Instrument Upgrades
📕 Com	Instrument Memory Capture
Applic Manut	Database F Scan hardware keys

Key benefits

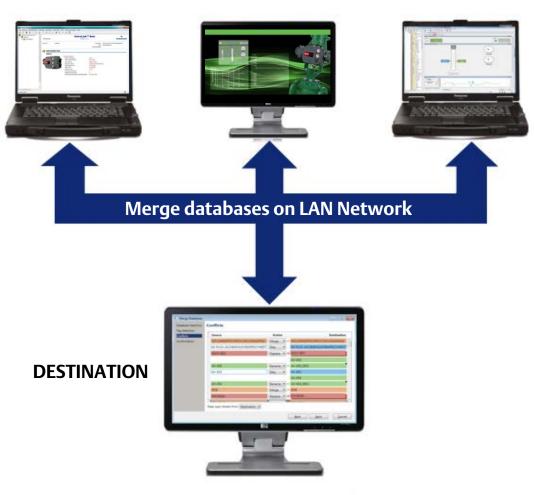
- Further increase process uptime and improve productivity with up to 80% time saving when running Concurrent Batch over a Batch Runner for similar tasks.
- Run up to three tasks in Concurrent Batch for one tag with the DVC6200 FW7 device only.
- Diagnostics are stored in the instrument after the concurrent batch is executed, allowing for data retrieval immediately after completion of the test or at a later time when valve is In-Service.
- Available with all configurations of the ValveLink software suite (ValveLink SOLO, ValveLink SNAP-ON, ValveLink DTM and ValveLink PLUG-IN for PRM).
- Supported on DVC6200, DVC6200f, DVC6000, and DVC6000f instruments.
- Fits into the proactive maintenance strategy of monitoring and diagnosing problems and correcting root cause sooner by gathering maximum data in a minimum amount of time.

V	Concurrent Batch Runner - untitled										
	Description: Turnaround_June2014_PIB101										
	Step	Tag	Task		Parameters	Time	Progress	Result			
	1	DVC6200	Valve Sig/Total Scan	-	(-5, 105, 50.0	4:10	100 %	Successful			
	2	FV105B-001	Valve Sig/Total Scan	•	(-5, 105, 50.0	4:10	83 %	Running			
	3	FV106A	Step Response	•	(2, 0, 0, 10, 1	0:55	61 🔏	Running			
	4	PV-1815	Step Response	•	(2, 0, 0, 10, 1	0:55	0%				
	5	TV200	Auto Travel Calibration	Ŧ		3:00	0%				
	6	FV105B LOAD	Auto Travel Calibration	•		3:00	0%				
	м т.								Þ		
	Insert Step Delete Step Cut Step Copy Step Paste Step Open New Delete Save Save As Bun Cancel Close Help										
	<u>opont.</u>			10	·] [_ <u>+</u>	<u>Tou .</u>			/_		

Merge Database feature provides ability to automate multiple ValveLink software databases and tags into single or multiple stations

Available with ValveLink SOLO, ValveLink DTM and ValveLink PLUG-IN for PRM.

Manually or automatically, using scheduler feature, merge multiple ValveLink software databases to a single or multiple stations, helping to eliminate diagnostic data silos on individual stations.



SOURCE

ValveLink Express—free version of ValveLink software license designed to setup, calibrate, verify, and configure alerts on FIELDVUE instruments

ValveLink Express license is available for ValveLink SOLO, ValveLink DTM, and ValveLink PLUG-IN for PRM.

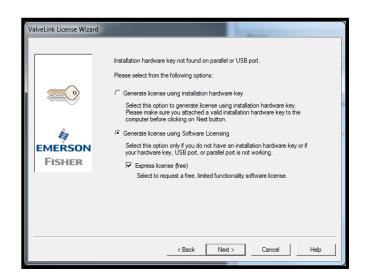
After the 60 days of full functionality temporary license available with each installation, the express license can be enabled by running the ValveLink License Wizard and requesting a New License using software licensing (Express).

ValveLink Express is designed primarily to allow you to perform key tasks such as setup, calibration, and alert configuration and to set the instrument In-Service.

The Express license can be upgraded to a full functionality license to add diagnostic capabilities at anytime. Contact your <u>Emerson sales office</u> or Local Business Partner for further information.

ValveLink Express provides:

- Users and Security Group setup
- Instrument specification sheet update
- Setup, Calibration (Auto, Manual, Partial Stroke and Hardware)
- Dashboard overview, Multi-Tag status, Status Monitoring and Alert monitoring
- Instrument Detailed Setup (parameter modification)
- Instrument Firmware upgrades
- Stroke valve for verification
- Monitor Instrument Alert Event Record
- Allow HART, Fieldbus and Multiplexer capabilities
- Network Alert Scan capabilities
- Trending



Specifications

Hardware Requirements

Computer and processor:

1 gigahertz (GHz) processor

Memory:

512 megabytes (MB) RAM (Windows XP)

1 gigabyte (GB) RAM (All other Operating Systems) Hard disk:

No Trending - 65 MB available storage space Trending - 125 MB available storage space

Drive:

CD-ROM Drive

Display:

1024 X 768 resolution

I/O (ValveLink Solo):

USB Port required for instrument level step-ups

HART communications require at least one of the following interfaces:

HART Modem - Standard RS-232 Port (requires dedicated interrupt)

HART Multiplexer - Standard RS-232 Port (requires RS-485 converter)

MACTek VIATOR USB HART Modem - USB Port

MACTek VIATOR Bluetooth HART Interface -Windows Bluetooth Serial Port Profile (SPP)

Modbus communications require the following:

Standard RS-232 Port

Additional HART Interface (see above)

FOUNDATION Fieldbus communications require at least one of the following:

National Instruments Fieldbus H1 interfaces NI USB-8486

PCI-FBUS/2 and above

PCMCIA-FBUS/2 Series 2 and above Emerson USB Fieldbus Interface (v3.0)

NI-FBUS Configuration - 2 Port Card

The following settings are applicable for configuration of a NI-FBUS 2 Port Card: a) If only one port will be connected to a LIVE segment, the other port must be set to "LAS" (not "Bus Monitor") b) If both ports will be connected to LIVE segments, then both ports must be set to "Basic" mode.

NI driver software must be installed BEFORE installing the NI hardware.

Other configurations may result in initialization failure of the NI Communication Manager software

Supported Languages

ValveLink Software v13.3 is only available in English

Supported Operating Systems

ValveLink Solo Windows Server 2003 SP2 (32bit) Windows[®] XP SP3 (32 bit) Windows 7 Professional SP1 (32 and 64 bit) Windows 7 Enterprise SP1 (32 and 64 bit) Windows Server® 2008 SP2 (64 bit) Windows Server 2008 R2 SP1 (64 bit) Windows 8 Professional (64 bit) Windows 8 Enterprise (64 bit) Windows 8.1 Professional (64 bit) Windows 8.1 Enterprise (64 bit) Windows Server 2012 Essential (64 bit) Windows Server 2012 Datacenter (64 bit) Windows Server 2012 R2 Essential (64 bit) Windows Server 2012 R2 Datacenter (64 bit) Windows 10 Professional (64 bit) Windows 10 Enterprise (64 bit) Windows Server 2016 Standard (64 bit) Windows Server 2016 Datacenter (64 bit)

ValveLink SNAP-ON for AMS Device Manager Operating systems supported by AMS Device Manager v11.0, v11.1.1, v11.5, v12.0, v12.5, v13.0, v13.1.1, v13.5

ValveLink PLUG-IN for PRM Operating systems supported by Yokogawa Plant Resource Manager (PRM) v3.12 or newer.

Software Requirements

Internet Explorer 6.0 or later Microsoft Windows Installer 3.1 or later (3.5 recommended; required by Microsoft .NET Framework)

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Table 1. ValveLink Software Capability

					PRODUCT	ТҮРЕ		
		ValveLink So		ValveLink SNAP-ON	ValveLink DTM	ValveLink PLUG-IN for PRM	VaveLink Mobile	ValveLink Express ⁽⁸⁾
CAPABILITY		VLDATA_UNLM Database Only	(1) NXXXX-OTOSTA		VLDTM-XXXX ⁽¹⁾	VLPRM-XXXX ⁽¹⁾	VLMOBILE-1 ⁽⁴⁾	
HA	RT Modem		•	●(2)				•
HA	RT Multiplexer		•	•(2)				•
	relessHART [®] Communications			•(2)				
Foi	JNDATION Fieldbus PC Card		•					•
Fo	UNDATION USB Interface		•	•				•
-	Valve Signature ⁽³⁾	0	•	•	•	•	•	
	Dynamic Error Band ⁽³⁾	0	•	•	•	•	•	
	Drive Signal Test ⁽³⁾	0	•	•	•		•	
	Step Response ⁽³⁾	0	•	•	•		•	
	Step Response Analysis	0	•	•	•	•	•	
ics	Performance Step Test ⁽³⁾	0	•	•	•	•	•	
lost	Graph Overlay	0	•	•	•	•		
iagr	Stroke Valve		•	•	•	•	•	
Performance Diagnostics	I/P & Relay Integrity	0	•	•	•	•	●(7)	
anc	Travel Deviation	0	•	•	•		●(7)	
orm	Supply Pressure ⁽⁴⁾	0	•	•	•	•	●(7)	
Perf	Relay Adjustment ⁽⁴⁾	0	•	•	•	•	●(7)	
1	Air Mass Flow ⁽⁴⁾	0	•	•	•	•	●(7)	
	PD One Button	0	•	•	•	•	●(7)	
	Valve Friction/Deadband Estimation	0	•	•	•	•		
	Valve Friction/ Deadband Trend	0	•	•	•			
	Profiler	0	•	•	•	•	•	
	Triggered Profile	0	•	•	•	•		
Sta	itus Monitor	0	•	•	•	•	•	•
Ne	twork Scan ⁽⁵⁾		•					•
Tre	ending ⁽⁵⁾	0	•					•
	ent Messenger ⁽⁵⁾		•					•
Мс	odbus ⁽⁵⁾		•					
Bat	tch Runner		•	•	•(6)	•		
Sch	neduler		•	•	•(6)	•		
Me	erge Database	•	•		•	•		
Exp	port Tag Data	•	•	•	•	•	•	•
	mware Download ⁽⁴⁾		•	•	•	•(5)	•	•
Te	mporary Tiering ⁽⁴⁾		•	•	•	•	•	
Ins	trument Level StepUp		•	•	•	•	•	•
Init	tial Tag Limit	Unlimited	5	25	5	5	Unlimited	Unlimited
Ma	ix Tag Limit	Unlimited	Unlimited	(2)	Unlimited	Unlimited	Unlimited	Unlimited
() 1 2 3 4 5 6 7	Indicates capability available Indicates diagnostics can be reviewed but n XXXX indicates tag count. AMS based capability. ValveLink SNAP-ON d Diagnostic can only be run when the instrun DVC6200, DVC6200f, DVC6000, DVC6000f HART only. Limited to Host FDT Frame connected devic Only available through PD One Button. Applies to SOLO/DTM/PRM	oes not control hent is out of se and DVC2000	or limit this fun rvice. only.	ctionality.				

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