

# Eleventh Annual QUIKLOOK Users Group Meeting

Marion, MA  
August 16th & 17th, 2017

Presented by:

Eric Solla  
Quiklook Product Manager



**TELEDYNE LECROY TEST SERVICES**  
Everywhere you look™

# Quiklook Software Update

---



- Version 2016.236
  - Released August 2016
- Version 2016.343
  - Released December 2016
- Version 2016.365
  - Released January 2017
- Version 2017.???
- Released September 2017

## Customer Service Bulletins

- CSB 2016-03
  - Issue Description
    - When entering the QUIKLOOK FS acquisition screen, or while plugging a digital encoder into channel 15 or 16, you receive a message stating:  
  
"You have plugged an Encoder into a system that does not support Encoders"
    - This may happen after a test when returning to the acquisition screen even though it was recognized the first time





## Customer Service Bulletins

- CSB 2016-03
  - Reconciliation:
    - Quiklook in order to recognize the encoders needs to load the drivers for them.
    - These drivers are located in files which are installed with Quiklook.
    - Because of the location of where the driver files were installed Quiklook would not always find them.
    - A new installer has been created which will place these files in the correct location.
    - Note: To verify that you have used the correct installer check for the file “QDMSvr.dll” in the Quiklook directory. This file should not exist but should be present in the Windows\System32 directory.





## Software Error Notices

- Version 2016.236
  - Error Notice 2016.236-1
    - The sensitivity calculator for c-clamp on threads may produce incorrect thrust sensitivity
    - If the sensitivity calculator in Quiklook is reopened to check the sensitivity for a c-clamp and the c-clamp is used on a threaded section of stem then the sensitivity may change to an incorrect value.
    - This applies to Versions 2015.208, 2015.210 & 2016.236



## Software Error Notices

- Error Notice 2016.236-1
  - Workaround:
    - Do not use the C-Clamp calculator inside Quiklook. Input the sensitivity from engineering directly.
    - If using the C-Clamp calculator for a threaded section always click on the COF field once. If the form opens with a different sensitivity, before clicking on “Apply Sensitivity”, always check each field by selecting it then moving to the next.
  - Notes:
    - This only applies if using a C-Clamp on a threaded section of stem





## Software Error Notices

- Version 2016.236
  - Error Notice 2016.236-2
    - If two instances of Quiklook are started on an acquisition system then the acquisition boards may lose their firmware settings causing the system to become inoperable
    - This applies to Versions 2015.208, 2015.210, 2016.236 & 2016.343





## Software Error Notices

- Error Notice 2016.236-2
  - Workaround:
    - Quiklook will start when the system is turned on.
    - If Quiklook needs to be restarted reboot the system.
    - Do not start Quiklook by clicking on the Quiklook Icon on the desktop .
  
  - Notes:
    - It is strongly recommended that you upgrade to Version 2016.365





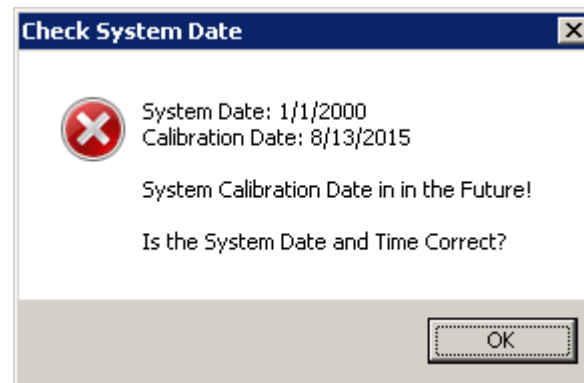


## 2016.236 – New Features



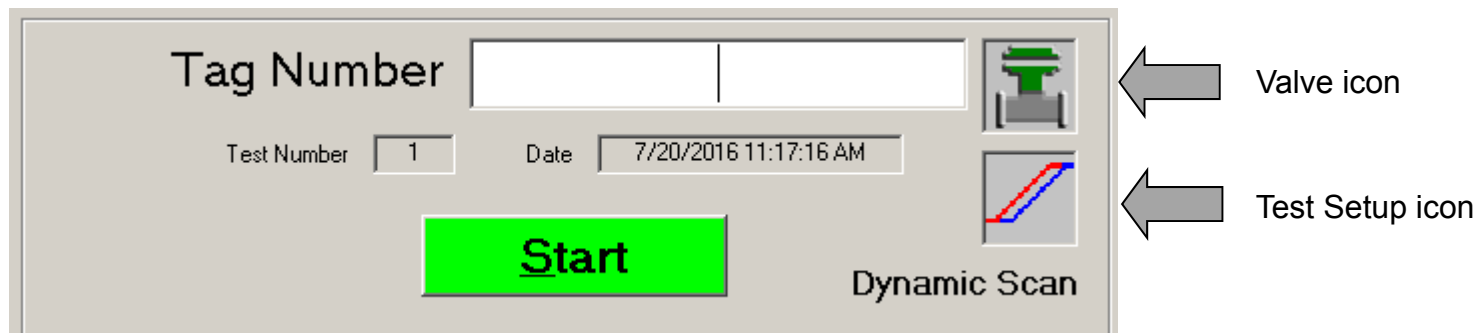
## 2016 – New Features – Startup

- When Quiklook is first started it will compare the system calibration date to the current date on the system.
- If the calibration date is later than the system date then you will be prompted to confirm the date.
- This should only happen if the CMOS battery is dead and the system BIOS has been reset to a default date.



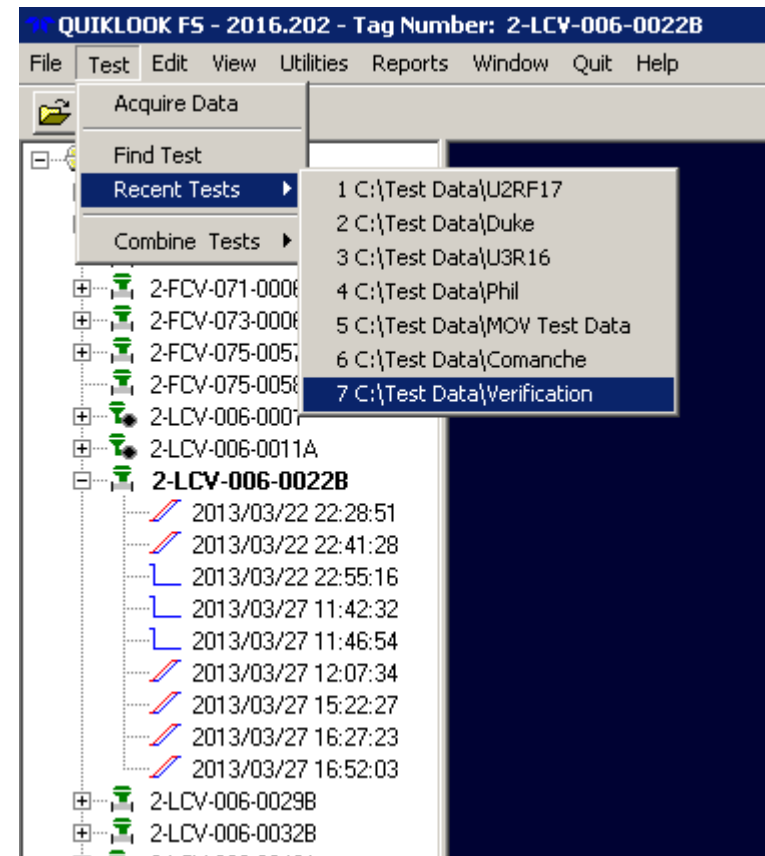
## 2016 – New Features – AOV Acquisition

- Double clicking on the Valve icon will open the Tag Data for editing
- Double clicking on the Test Setup icon will open the Test Setup dialog



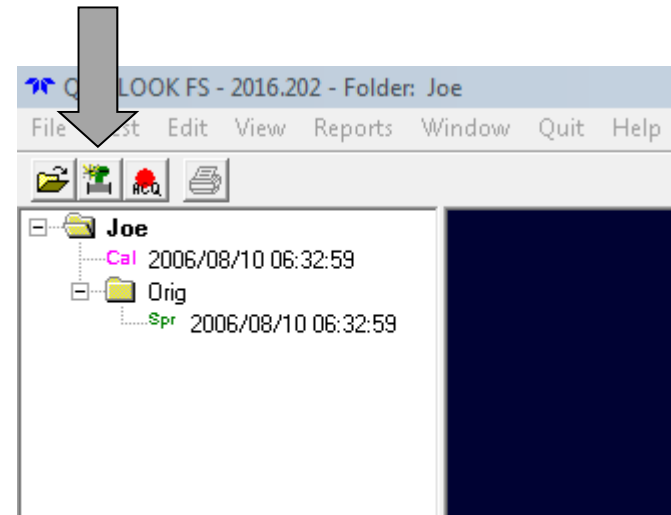
## 2016 – New Features – Test Listing

- Added Recent List for FlowScanner mode
- Changed test format to "yyyy/mm/dd hh:mm:ss" so it sorts properly



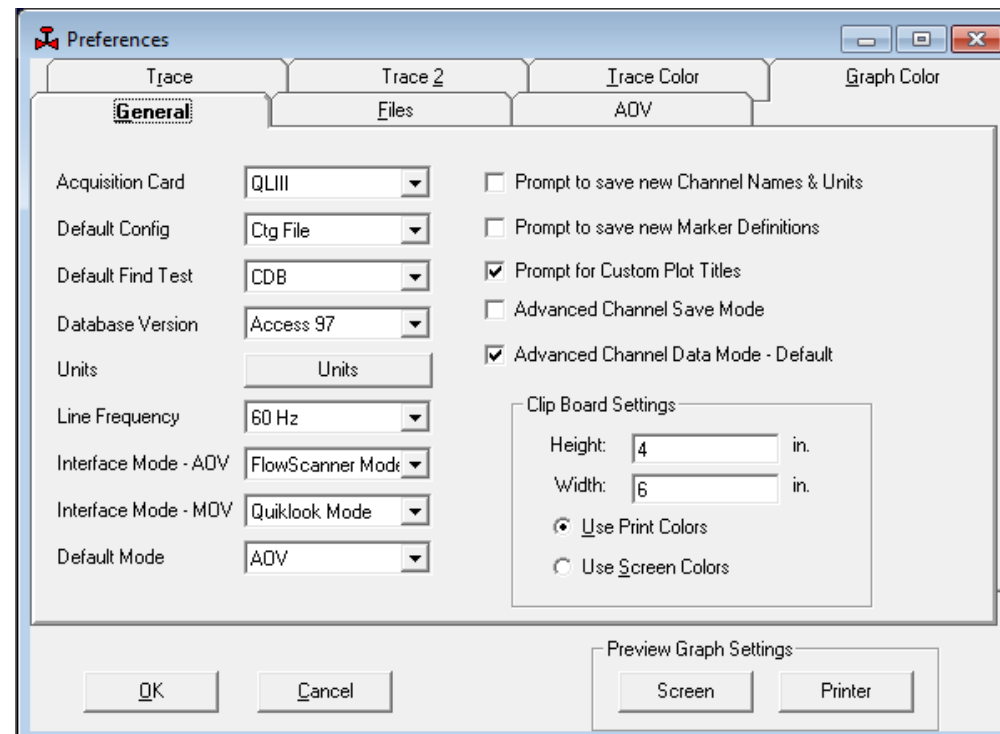
## 2016 – New Features – Test Listing

- Added icon to toolbar to create New Tag (Same as right click menu)
- Added Spring Pack Cal & Calibration icons to FlowScanner Tree



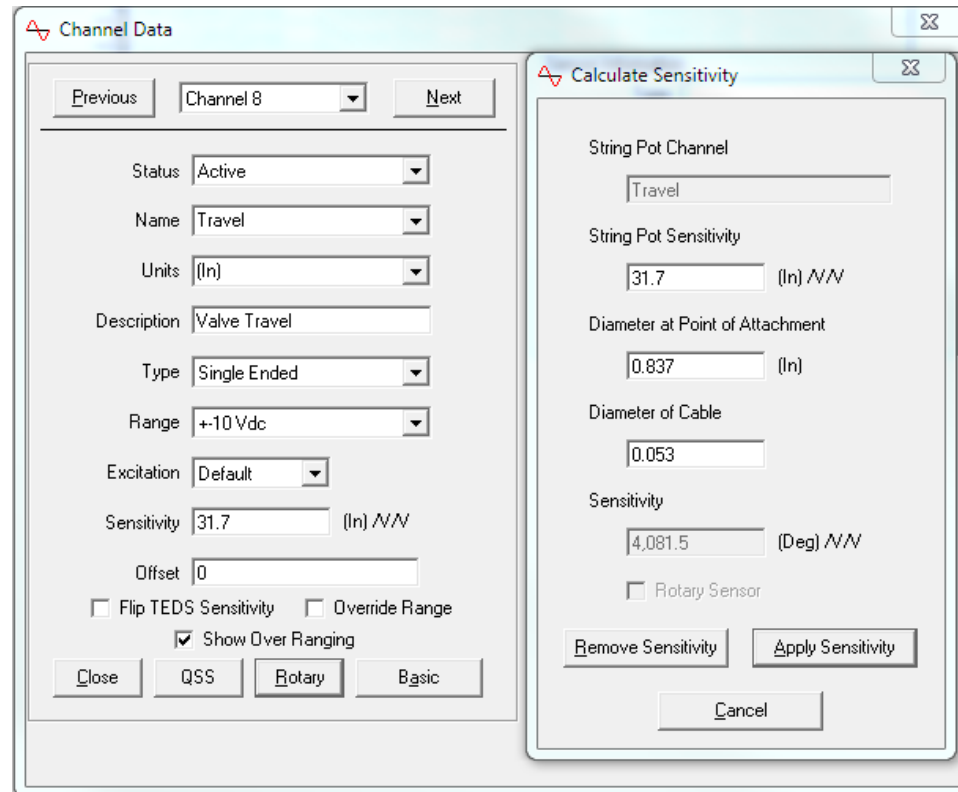
## 2016 – New Features – Preferences

- Added separate interface modes for AOV & MOV
- Removed preference for save test after acquisition - Always True



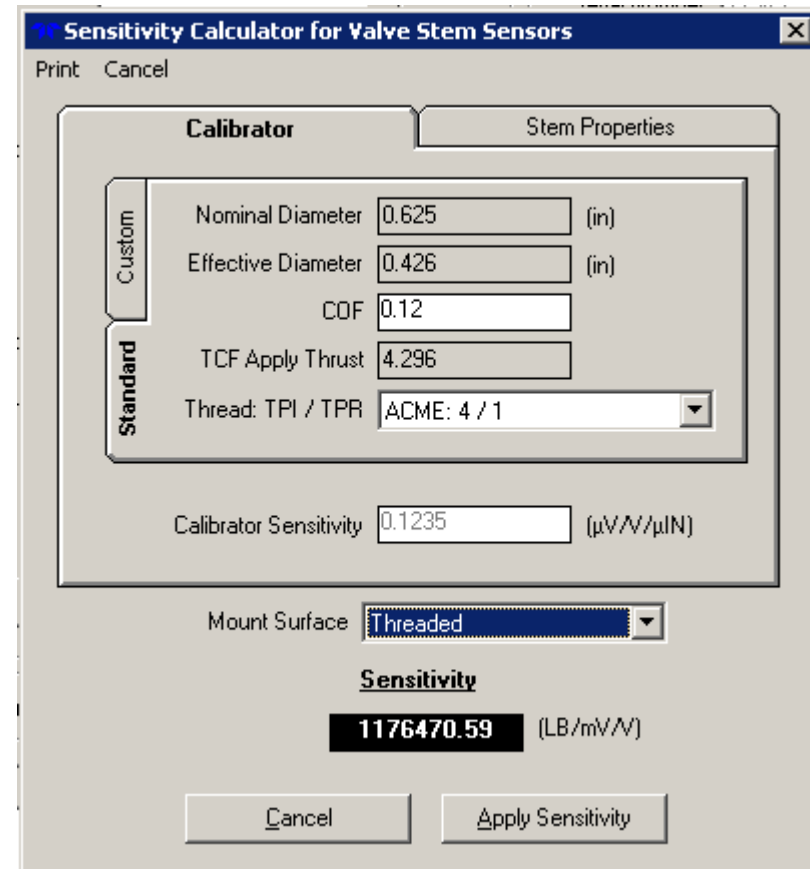
## 2016 – New Features – Configuration

- Added “Diameter of Cable” to rotary sensitivity calc



## 2016 – Changes – C-Clamp

- Both tabs of calculator must be clicked on before applying sensitivity
- This ensures that all inputs on both tabs are reviewed before applying



**Sensitivity Calculator for Valve Stem Sensors**

Print Cancel

**Calibrator** Stem Properties

Custom

Nominal Diameter 0.625 (in)

Effective Diameter 0.426 (in)

CDF 0.12

Standard

TCF Apply Thrust 4.296

Thread: TPI / TPR ACME: 4 / 1

Calibrator Sensitivity 0.1235 ( $\mu\text{V}/\mu\text{IN}$ )

Mount Surface Threaded

**Sensitivity**

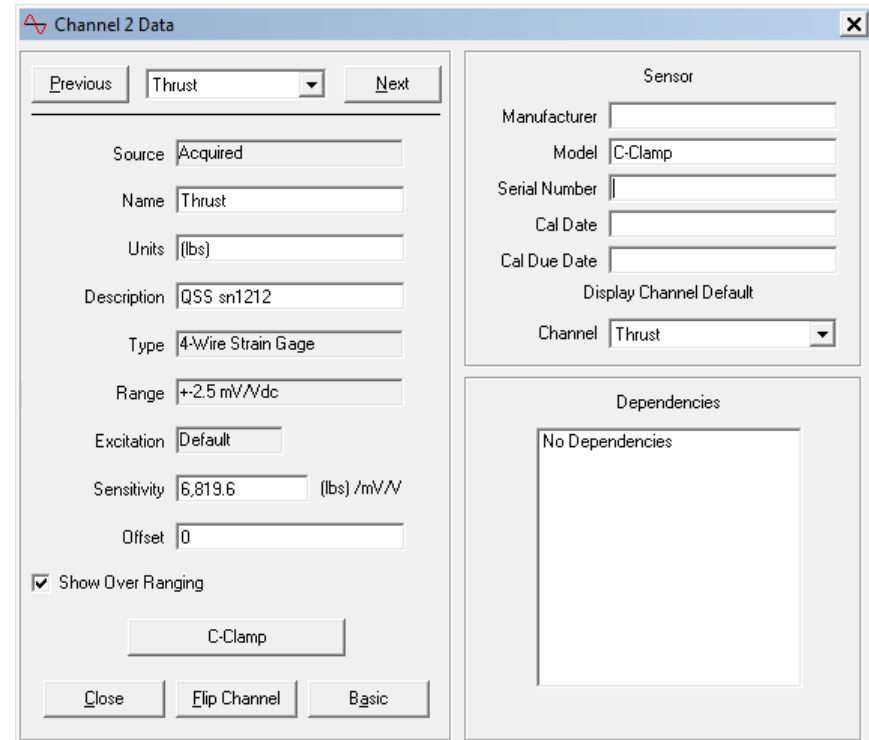
**1176470.59** (LB/mV/V)

Cancel Apply Sensitivity



## 2016 – New Features – Replay

- Model number of the sensor matches a model number Quiklook recognizes as a C-Clamp
- A C-Clamp button will appear.
- This will allow you to bring up the C-Clamp calculator, same as in configuration, to recalculate the sensitivity



Channel 2 Data

Previous Thrust Next

Source: Acquired

Name: Thrust

Units: (lbs)

Description: QSS sn1212

Type: 4-Wire Strain Gage

Range: +2.5 mV/Vdc

Excitation: Default

Sensitivity: 6,819.6 (lbs) /mV/V

Offset: 0

Show Over Ranging

C-Clamp

Close Flip Channel Basic

Sensor

Manufacturer: [ ]

Model: C-Clamp

Serial Number: [ ]

Cal Date: [ ]

Cal Due Date: [ ]

Display Channel Default

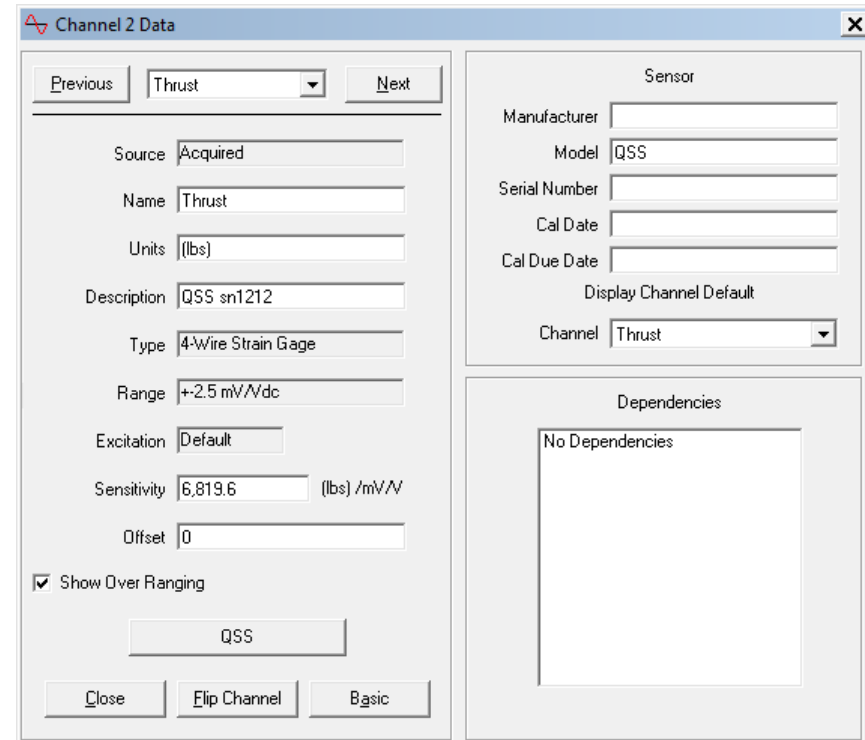
Channel: Thrust

Dependencies

No Dependencies

## 2016 – New Features – Replay

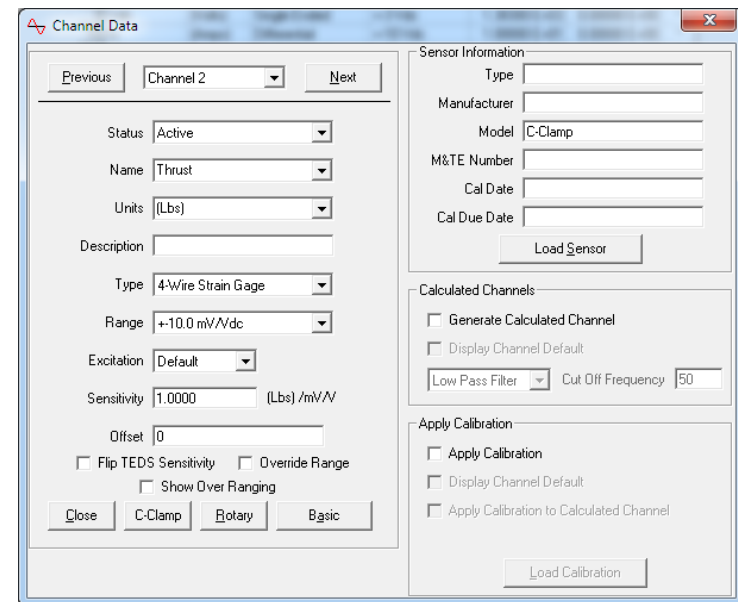
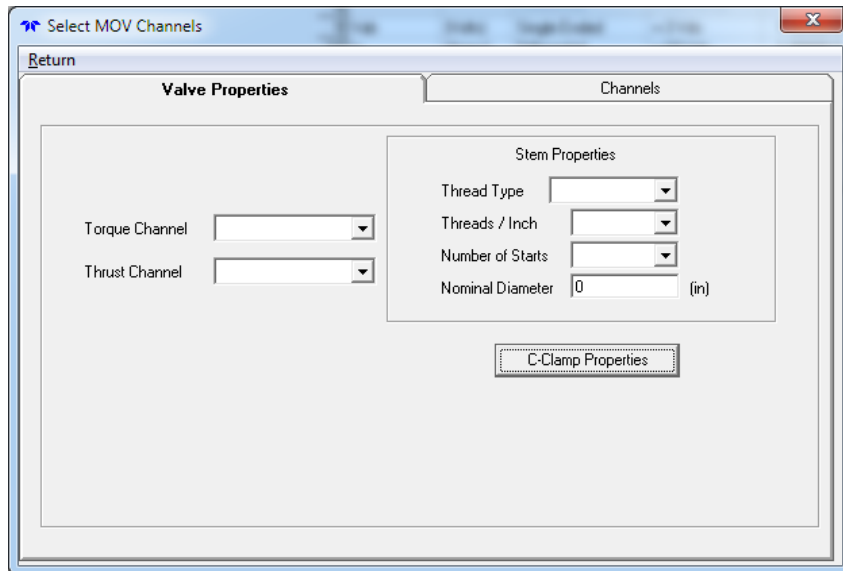
- Model number of the sensor matches a model number Quiklook recognizes as a QSS
- A QSS button will appear.
- This will allow you to bring up the QSS calculator, same as in configuration, to recalculate the sensitivity.



The screenshot shows the 'Channel 2 Data' dialog box. It has a title bar with a close button. Below the title bar are 'Previous', 'Thrust' (selected in a dropdown), and 'Next' buttons. The main area contains several input fields: 'Source' (Acquired), 'Name' (Thrust), 'Units' ((lbs)), 'Description' (QSS sn1212), 'Type' (4-Wire Strain Gage), 'Range' (+-2.5 mV/Vdc), 'Excitation' (Default), 'Sensitivity' (6,819.6 (lbs) /mV/V), and 'Offset' (0). There is a checked checkbox for 'Show Over Ranging'. A 'QSS' button is located below the 'Offset' field. At the bottom are 'Close', 'Flip Channel', and 'Basic' buttons. On the right side, there is a 'Sensor' section with fields for 'Manufacturer', 'Model' (QSS), 'Serial Number', 'Cal Date', and 'Cal Due Date'. Below this is a 'Display Channel Default' section with a 'Channel' dropdown (Thrust). At the bottom right is a 'Dependencies' section with a box containing the text 'No Dependencies'.

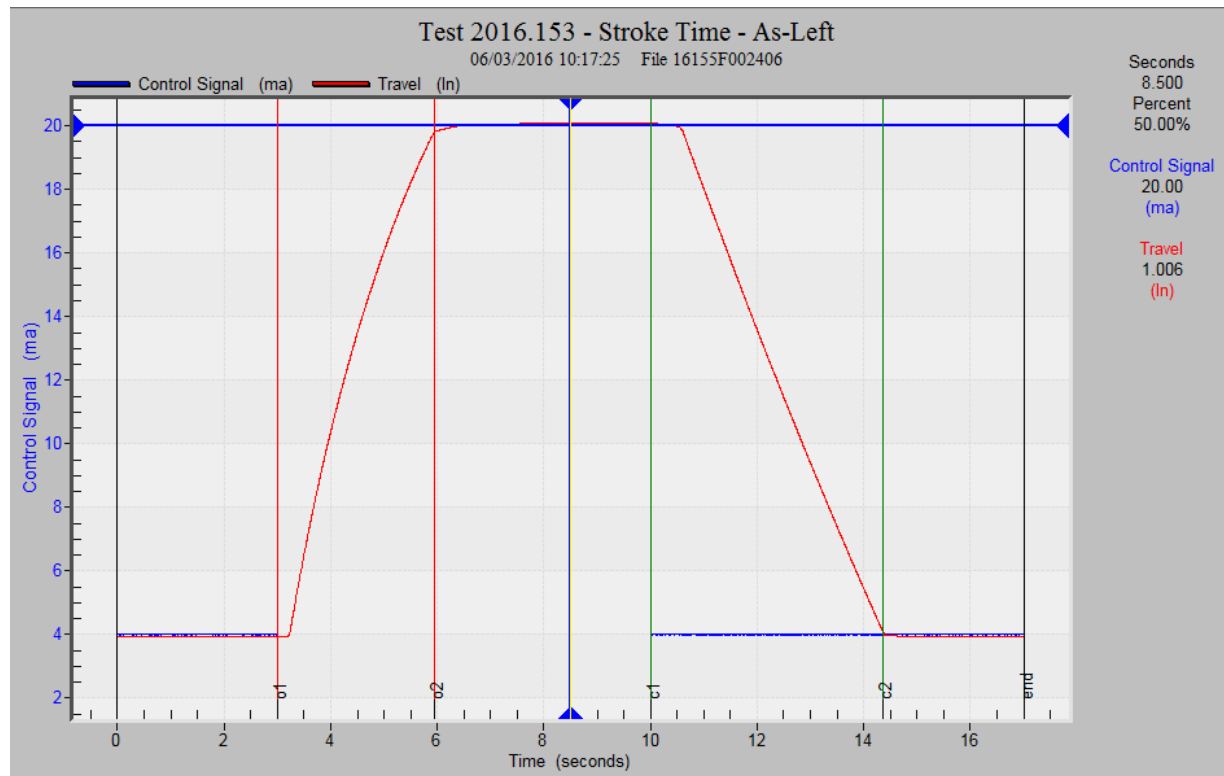
## 2016 – New Features – Replay

- MOV Properties available during Desktop Configuration
- C-Clamp Properties also available here.
- C-Clamp Properties also available in Channel Data form by entering “C-Clamp” as model number



## 2016 – New Features – AOV Analysis

- Added Stroke Time standard plot
- Added o1, o2, c1 & c2 as standard markers

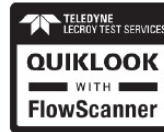


# Quiklook Software Update



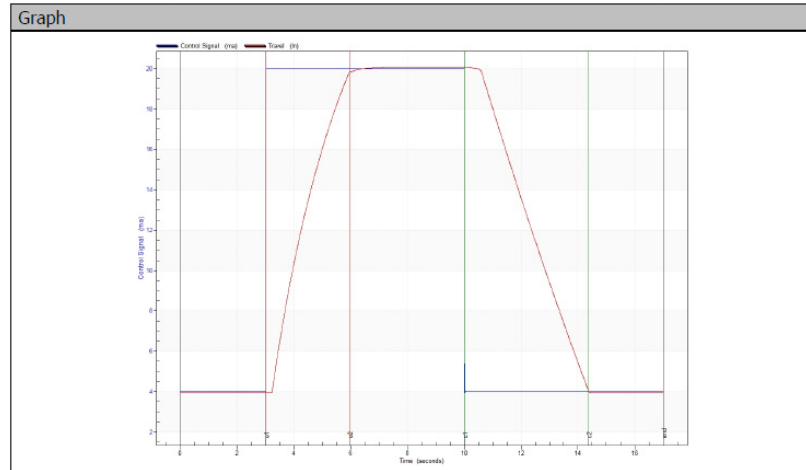
## Step Change Report

AF / AL: As-Left  
 Tuesday, July 26, 2016  
 2:39:56 PM



Tag # **Test 2016.153**  
 Serial # FCV612  
 WO #  
 Test Time 06/03/2016 10:17:25

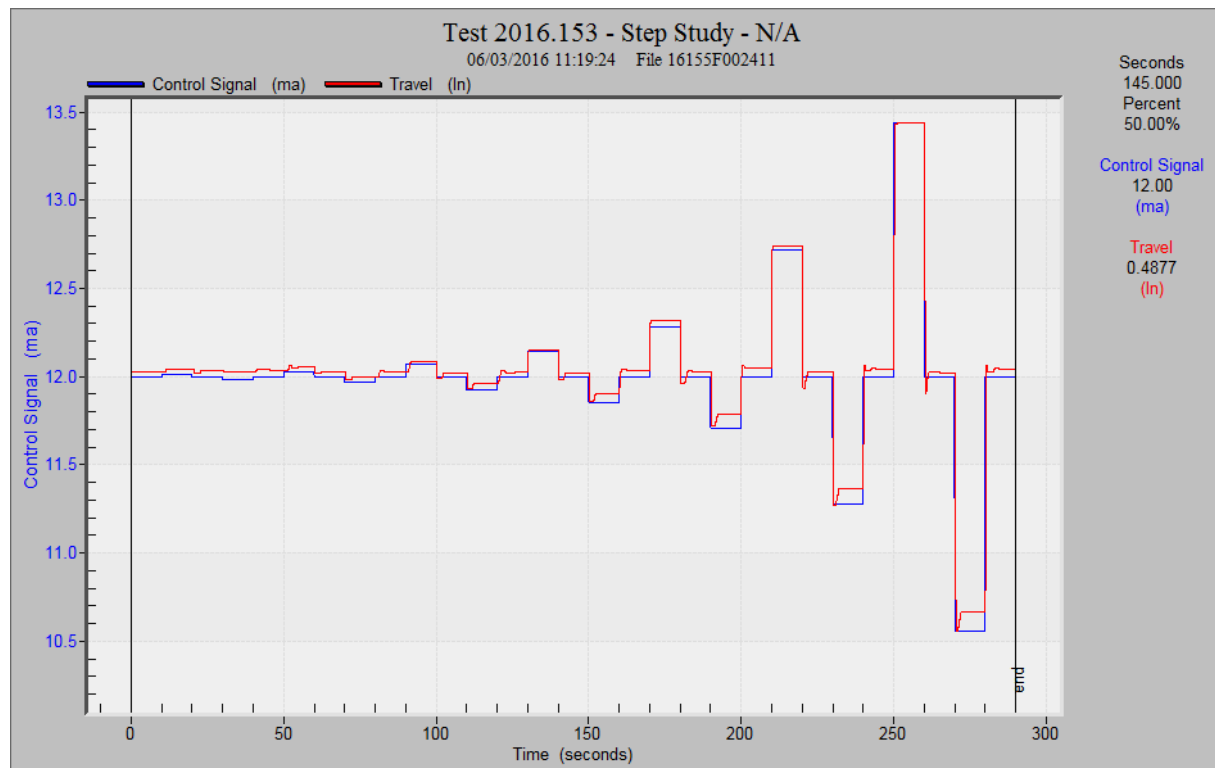
Step Change Analysis		
Marker	Time	Time Difference:
o1	3.0008 sec	
o2	5.9543 sec	3.0 sec To Open
c1	10.0008 sec	
c2	14.3708 sec	4.4 sec To Close



Test Setup: (16155F002406)	Additional Comments
Start: 4 mA      PreTest: 3 sec End: 20 mA      Hold Time: 7 sec Test Frequency: 25000 Hz      PostTest: 7 sec  Comment:	

## 2016 – New Features – AOV Analysis

- Added Step Study standard plot
- Previously called Resolution Response

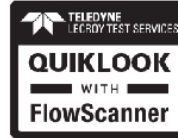


# Quiklook Software Update

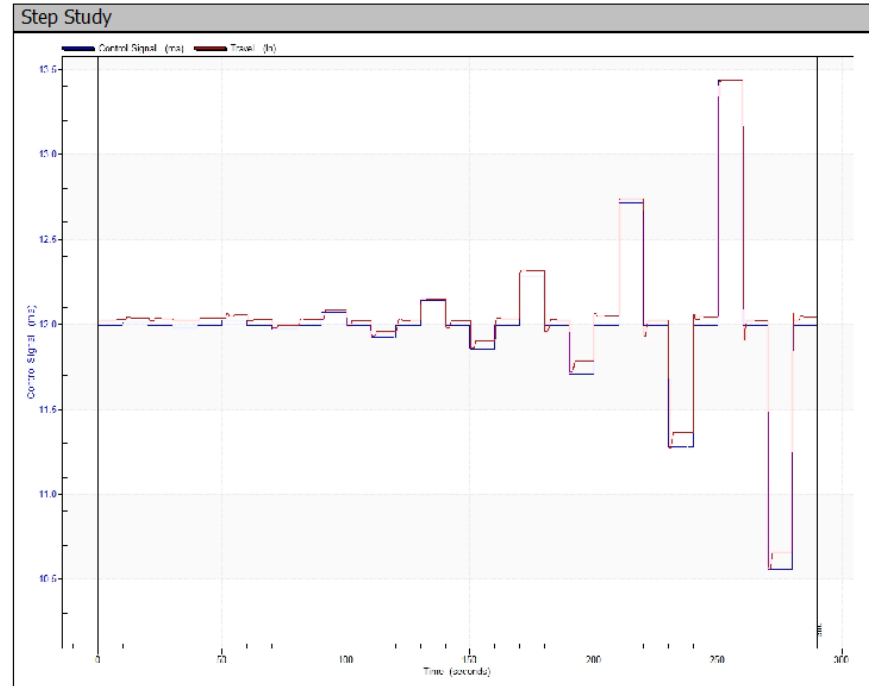


## Step Study Report

Tuesday, July 26, 2016  
3:13:52 PM



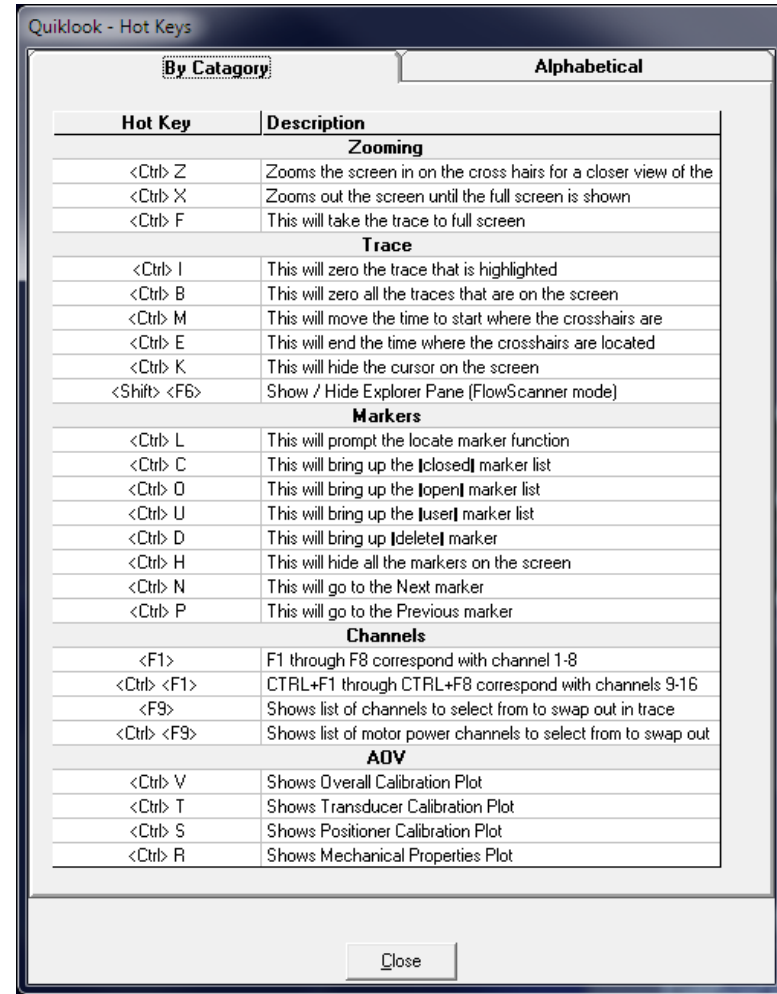
Tag # **Test 2016.153**  
Serial # FCV612  
WO # CSD12346879  
Test Time 06/03/2016 11:19:24



Test Setup: (16155F002411)	Additional Comments
Start: 12 mA    Hold Time: 10 sec # of Steps: 7    Min Signal: 4.8 mA Test Frequency: 50 Hz    Max Signal: 19.2 mA  Comment: Report Generation Test Complete test at 50Hz	

## 2016 – New Features – Hot Keys

- Added Hot Key definitions off of Help menu

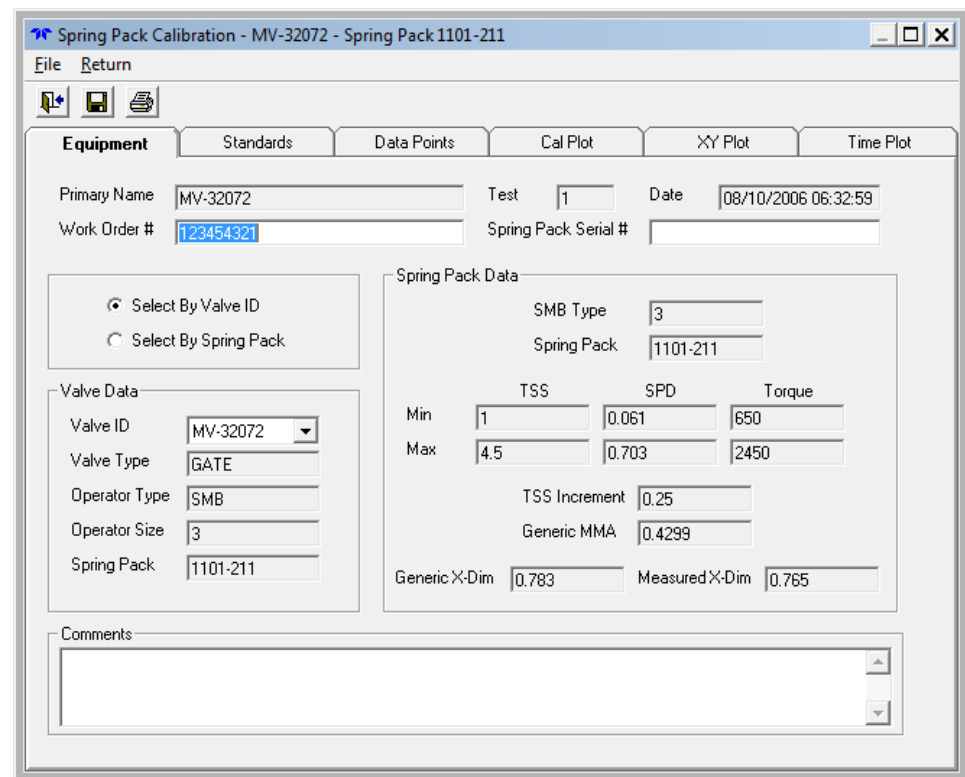


Hot Key	Description
<b>Zooming</b>	
<Ctrl> Z	Zooms the screen in on the cross hairs for a closer view of the
<Ctrl> X	Zooms out the screen until the full screen is shown
<Ctrl> F	This will take the trace to full screen
<b>Trace</b>	
<Ctrl> I	This will zero the trace that is highlighted
<Ctrl> B	This will zero all the traces that are on the screen
<Ctrl> M	This will move the time to start where the crosshairs are
<Ctrl> E	This will end the time where the crosshairs are located
<Ctrl> K	This will hide the cursor on the screen
<Shift> <F6>	Show / Hide Explorer Pane (FlowScanner mode)
<b>Markers</b>	
<Ctrl> L	This will prompt the locate marker function
<Ctrl> C	This will bring up the [closed] marker list
<Ctrl> O	This will bring up the [open] marker list
<Ctrl> U	This will bring up the [user] marker list
<Ctrl> D	This will bring up [delete] marker
<Ctrl> H	This will hide all the markers on the screen
<Ctrl> N	This will go to the Next marker
<Ctrl> P	This will go to the Previous marker
<b>Channels</b>	
<F1>	F1 through F8 correspond with channel 1-8
<Ctrl> <F1>	CTRL+F1 through CTRL+F8 correspond with channels 9-16
<F9>	Shows list of channels to select from to swap out in trace
<Ctrl> <F9>	Shows list of motor power channels to select from to swap out
<b>AOV</b>	
<Ctrl> V	Shows Overall Calibration Plot
<Ctrl> T	Shows Transducer Calibration Plot
<Ctrl> S	Shows Positioner Calibration Plot
<Ctrl> R	Shows Mechanical Properties Plot



## 2016 – New Features – Spring Pack Calibration Report

- Work Order carried forward from Quiklook



The screenshot displays the 'Spring Pack Calibration' software window. The title bar reads 'Spring Pack Calibration - MV-32072 - Spring Pack 1101-211'. The interface includes a menu bar with 'File' and 'Return', and a toolbar with icons for home, save, and print. Below the toolbar are several tabs: 'Equipment', 'Standards', 'Data Points', 'Cal Plot', 'XY Plot', and 'Time Plot'. The 'Equipment' tab is active, showing the following fields:

- Primary Name: MV-32072
- Test: 1
- Date: 08/10/2006 06:32:59
- Work Order #: 123454321
- Spring Pack Serial #: [empty]

Below these fields are two radio buttons: 'Select By Valve ID' (selected) and 'Select By Spring Pack'. To the right is a 'Spring Pack Data' section with the following fields:

- SMB Type: 3
- Spring Pack: 1101-211
- Min TSS: 1
- Max TSS: 4.5
- Min SPD: 0.061
- Max SPD: 0.703
- Min Torque: 650
- Max Torque: 2450
- TSS Increment: 0.25
- Generic MMA: 0.4299
- Generic X-Dim: 0.783
- Measured X-Dim: 0.765

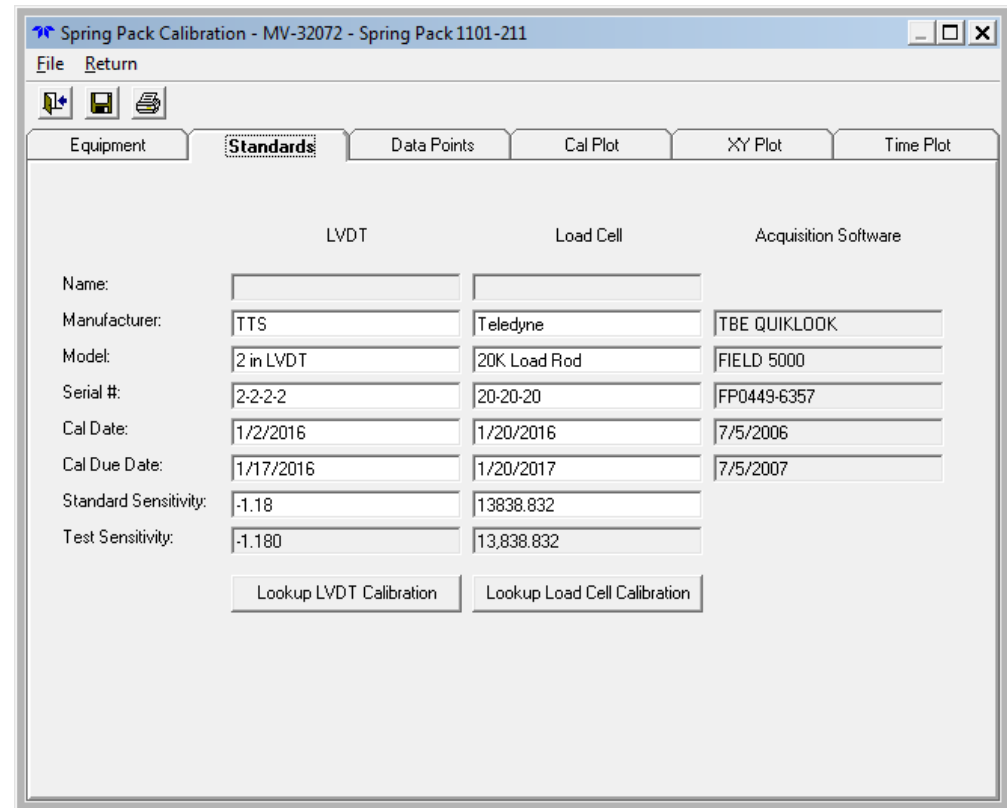
At the bottom left, there is a 'Valve Data' section with the following fields:

- Valve ID: MV-32072
- Valve Type: GATE
- Operator Type: SMB
- Operator Size: 3
- Spring Pack: 1101-211

At the bottom of the window is a 'Comments' text area.

## 2016 – New Features – Spring Pack Calibration Report

- M&TE carried forward from Quiklook



Spring Pack Calibration - MV-32072 - Spring Pack 1101-211

File Return

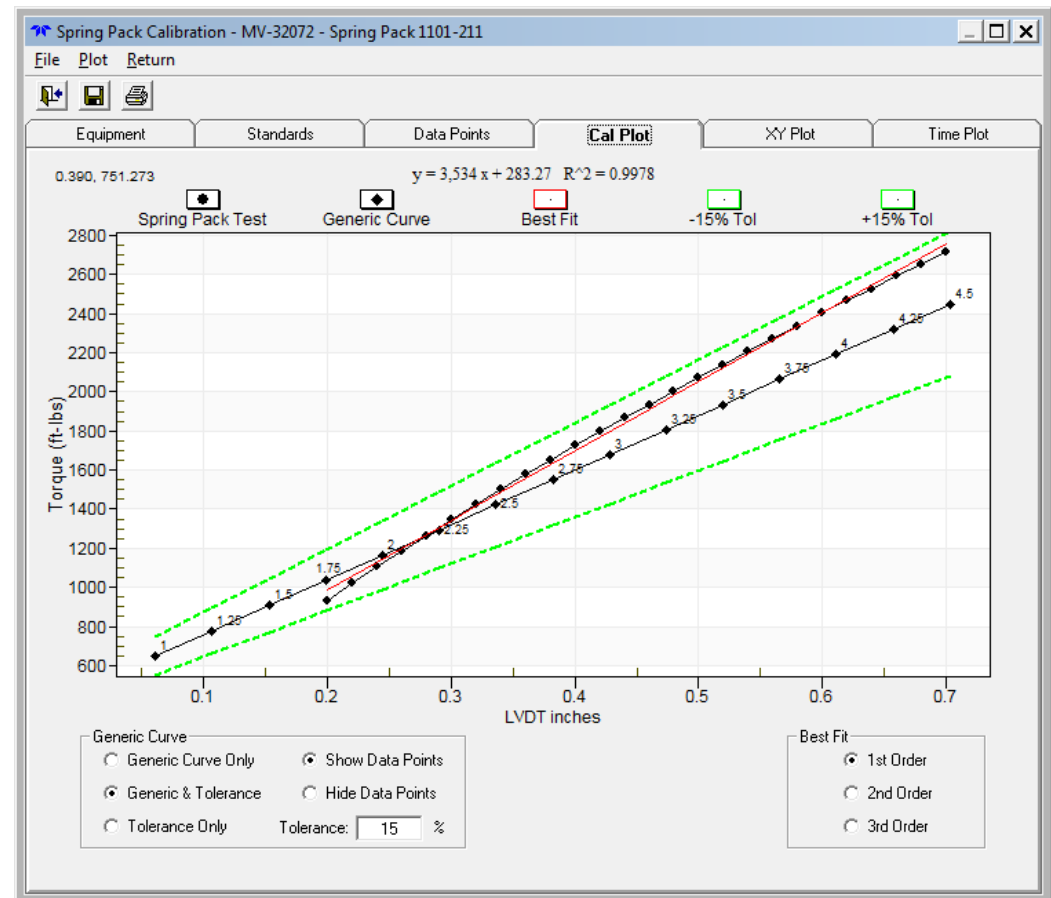
Equipment Standards Data Points Cal Plot XY Plot Time Plot

	LVDT	Load Cell	Acquisition Software
Name:			
Manufacturer:	TTS	Teledyne	TBE QUIKLOOK
Model:	2 in LVDT	20K Load Rod	FIELD 5000
Serial #:	2-2-2-2	20-20-20	FP0449-6357
Cal Date:	1/2/2016	1/20/2016	7/5/2006
Cal Due Date:	1/17/2016	1/20/2017	7/5/2007
Standard Sensitivity:	-1.18	13838.832	
Test Sensitivity:	-1.180	13,838.832	

Lookup LVDT Calibration    Lookup Load Cell Calibration

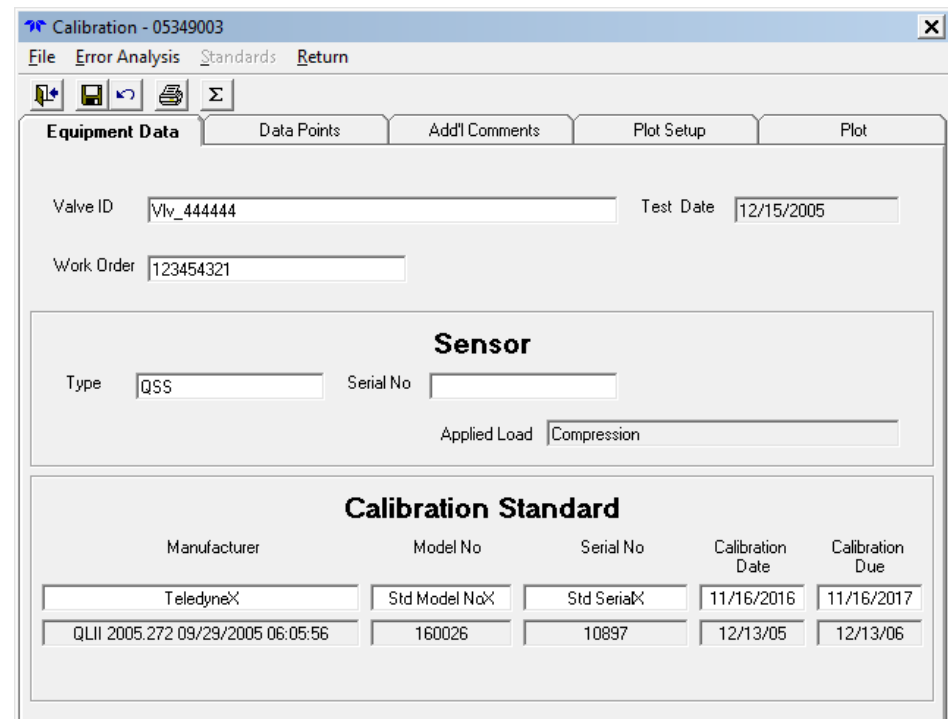
## 2016 – New Features – Spring Pack Calibration Report

- Tolerance Band Added
- Option to Show Tolerance Band
- Tolerance user defined
- Hide / Show Data Points



## 2016 – New Features – QSS Calibration Report

- Changed Client to Valve ID and carried forward from Quiklook
- Changed Project No to Work Order carried forward from Quiklook
- M&TE carried forward from Quiklook



Calibration - 05349003

File Error Analysis Standards Return

Equipment Data Data Points Add'l Comments Plot Setup Plot

Valve ID  Test Date

Work Order

**Sensor**

Type  Serial No

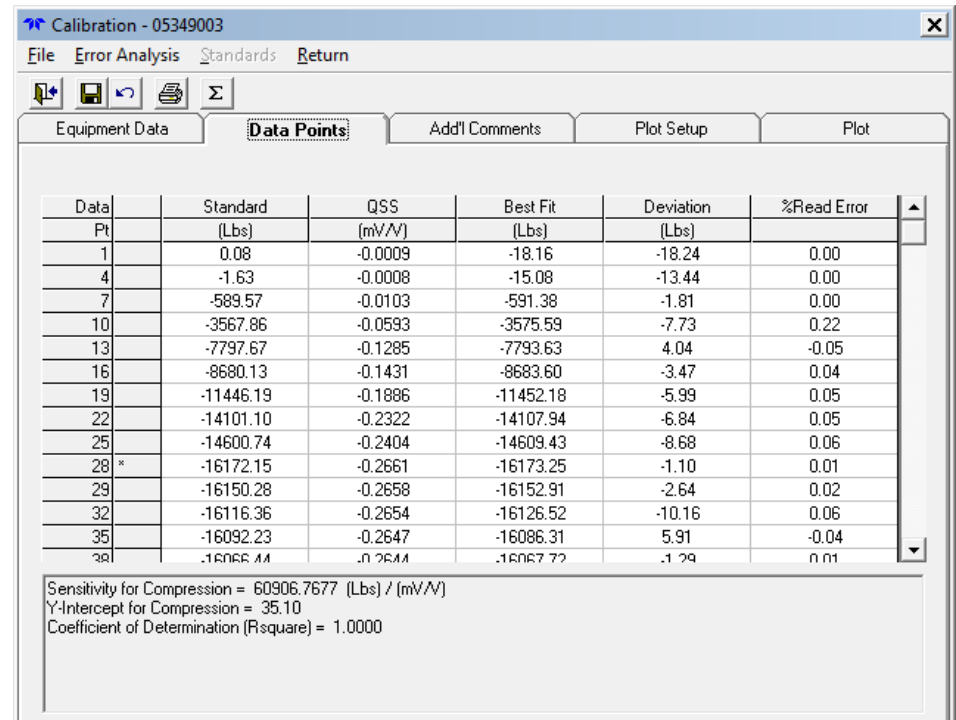
Applied Load

**Calibration Standard**

Manufacturer	Model No	Serial No	Calibration Date	Calibration Due
<input type="text" value="TeledyneX"/>	<input type="text" value="Std Model NoX"/>	<input type="text" value="Std SerialX"/>	<input type="text" value="11/16/2016"/>	<input type="text" value="11/16/2017"/>
<input type="text" value="QLII 2005.272 09/29/2005 06:05:56"/>	<input type="text" value="160026"/>	<input type="text" value="10897"/>	<input type="text" value="12/13/05"/>	<input type="text" value="12/13/06"/>

## 2016 – New Features – QSS Calibration Report

- Added %Reading Error to main report



Calibration - 05349003

File Error Analysis Standards Return

Equipment Data **Data Points** Add'l Comments Plot Setup Plot

Data Pt	Standard (Lbs)	QSS (mV/V)	Best Fit (Lbs)	Deviation (Lbs)	%Read Error
1	0.08	-0.0009	-18.16	-18.24	0.00
4	-1.63	-0.0008	-15.08	-13.44	0.00
7	-589.57	-0.0103	-591.38	-1.81	0.00
10	-3567.86	-0.0593	-3575.59	-7.73	0.22
13	-7797.67	-0.1285	-7793.63	4.04	-0.05
16	-8680.13	-0.1431	-8683.60	-3.47	0.04
19	-11446.19	-0.1886	-11452.18	-5.99	0.05
22	-14101.10	-0.2322	-14107.94	-6.84	0.05
25	-14600.74	-0.2404	-14609.43	-8.68	0.06
28 *	-16172.15	-0.2661	-16173.25	-1.10	0.01
29	-16150.28	-0.2658	-16152.91	-2.64	0.02
32	-16116.36	-0.2654	-16126.52	-10.16	0.06
35	-16092.23	-0.2647	-16086.31	5.91	-0.04
38	-16066.44	-0.2644	-16067.72	-1.29	0.01

Sensitivity for Compression = 60906.7677 (Lbs) / (mV/V)  
 Y-Intercept for Compression = 35.10  
 Coefficient of Determination (Rsquare) = 1.0000



## 2016 – New Features – Audit Trail Report



### Quiklook Audit Trail

Valve ID: 3HD-122

Test Date: 04/23/2012 01:42:38

File: 3HD0122\_A6\_20120423\_014238.CDB

Dates of Usage = 2/26/2016 to 4/30/2016

Use Date	User Name	Computer	Software Revision	Function	Description
2/26/2016 2:17:35 AM	Michael Richard	MOVXPS	V5Bcon4 2016.55		
4/27/2016 3:39:19 PM	rjhuty1	3209EK4MJ358BZ	QUIKLOOK 3 - 2015.208	Save Changes	Primary Name: 3HD0122 to 3HD-122 Rotary Type: Other to Pivoting Retracted Area: 1.000 to 105.0 Bottom Cylinder: 1.000 to 105.0 Extended Area: 1.000 to 105.0 Seat Diameter: 1.000 to 4.375 Actuator Manufacturer: to FISHER Actuator Model: to 657.0
4/30/2016 10:17:37 AM	rjhuty1	3209EK4MJ358BZ	QUIKLOOK 3 - 2015.208	Save Changes	Ch # 5 - I/P Input - Channel Name: CONTROL to I/P Input
4/30/2016 10:19:37 AM	rjhuty1	3209EK4MJ358BZ	QUIKLOOK 3 - 2015.208	Save Changes	Number of Markers: 0 to 7 ctr - New Marker msc - New Marker map - New Marker sfr - New Marker efr - New Marker mxb - New Marker mnb - New Marker Service Seat Load: 0.0000000 to 1,284 Seat Force: 0.0000000 to 1,284 Seat Load: 0.0000000 to 93.43

## 2016 – New Features – FlowScanner Reports

### Dynamic Scan Report

#### Dynamic Scan Report

Wednesday, July 27, 2016  
5:25:02 PM



Tag # **Test 2016.103 2**  
Serial #  
WO #  
Test Time 04/15/2016 11:51:31

Total Valve (Signal vs Travel)			Positioner (I/P Output vs Travel)		
	Specified	Measured		Specified	Measured
Total Travel	90.00 deg	91.07 deg	Total Travel	90.00 deg	91.07 deg
Dyn. Zero Travel	20.00 mA	0.00 mA	Dyn. Zero Travel	15.00 psig	N/A
Dyn. Full Travel	4.00 mA	0.00 mA	Dyn. Full Travel	3.00 psig	N/A
Avg. Dyn. Err. Band		2.62 %	Avg. Dyn. Err. Band		1.58 %
Max Dyn. Err. Band		3.56 %	Max Dyn. Err. Band		1.97 %
Min Dyn. Err. Band		2.28 %	Min Dyn. Err. Band		1.34 %
Dynamic Linearity		0.44 %	Dynamic Linearity		0.53 %
Zero Static Endpoint	0.00 mA		Supply Pressure (Initial)	60.00 psig	62.14 psig
Full Static Endpoint	0.00 mA		Supply Pressure (Min)		61.04 psig
			Supply Pressure (Avg)		61.98 psig
			Zero Static Endpoint		0.00 psig
			Full Static Endpoint		0.00 psig

I/P (Signal vs I/P Output)			Valve (Positioner Output vs Travel)		
	Specified	Measured		Specified	Measured
Pressure at (zero signal)	3.00 psig	3.01 psig	Average Friction		6.7 ft-lbs
Pressure at (full signal)	15.00 psig	15.02 psig	Maximum Friction	0.0 ft-lbs	7.9 ft-lbs
Avg. Dyn. Err. Band		0.83 %	Minimum Friction	0.0 ft-lbs	6.0 ft-lbs
Max Dyn. Err. Band		2.36 %	Spring Rate	0 lbs/in	0 lbs/in
Min Dyn. Err. Band		0.00 %	Bench Set (Low)	0.00 psig	N/A
Dynamic Linearity		0.44 %	Bench Set @ Rated Travel		1.84 psig
			Bench Set (High)	0.00 psig	N/A
			Total Travel	90.00 deg	91.07 deg
			Seating Torque		N/A
			Break Out Torque	0.0 ft-lbs	N/A

Test Setup: (16106F000104)		Additional Comments	
Start:	4 mA	End:	20 mA
Ramp Time:	-50 sec	Hold Time:	17 sec
PreTest:	5 sec	PostTest:	17 sec
Test Frequency:	50 Hz		
Comment:			

QLReportFlowScanner 2016.193  
MRNENPC34.Etc

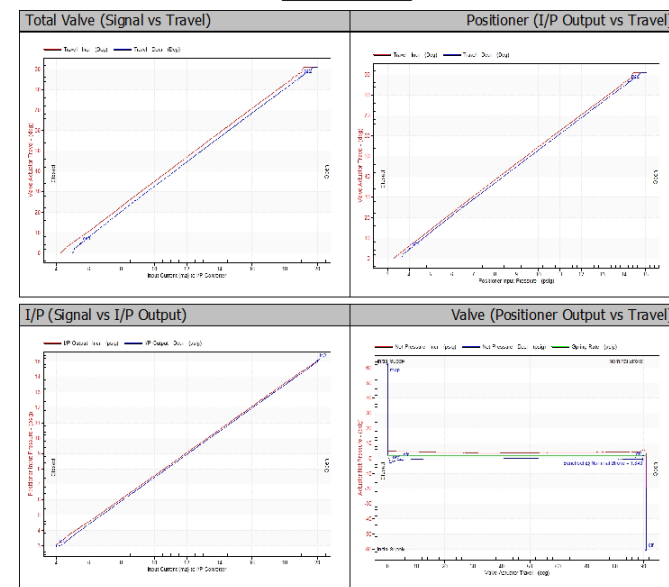
Page 1 of 2

#### Dynamic Scan Report

Wednesday, July 27, 2016  
5:25:02 PM



Tag # **Test 2016.103 2**  
Serial #  
WO #  
Test Time 04/15/2016 11:51:31



QLReportFlowScanner 2016.193  
MRNENPC34.Etc

Page 2 of 2

## 2016 – New Features – FlowScanner Reports

### Static Point Report

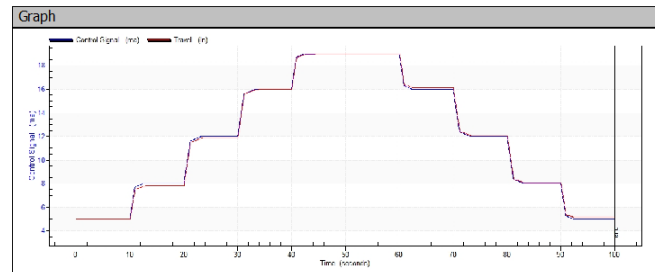
**Static Point Report**



Tag # **Test 2016.153**  
 Serial # FCV612  
 WO # CSD12346879  
 Test Time 06/03/2016 11:16:07

Wednesday, July 27, 2016  
 5:30:53 PM

Static Point Analysis Values						
Up' Stroke		Down' Stroke		Difference		<b>Max Hysteresis &amp; Dead Band</b> 1.75%  <b>Linearity</b> 0.65%
Input	Output	Input	Output	Input	Output	
5.00 in	0.018 in	5.00 in	0.027 in	0.00 in	-0.009 in	
8.00 in	0.207 in	8.00 in	0.220 in	0.00 in	-0.013 in	
12.00 in	0.479 in	12.00 in	0.488 in	0.00 in	-0.009 in	
16.00 in	0.750 in	16.00 in	0.758 in	0.00 in	-0.008 in	
19.00 in	0.949 in	19.00 in	0.949 in	0.00 in	0.000 in	



Test Setup: (16155F002410)	Additional Comments
# of Steps: 5      Hold Time: 10 sec Test Frequency: 50 Hz      Exercise Valve: No  Comment: Report Generation Test Complete test at 50Hz	



## 2016 – New Features – FlowScanner Reports

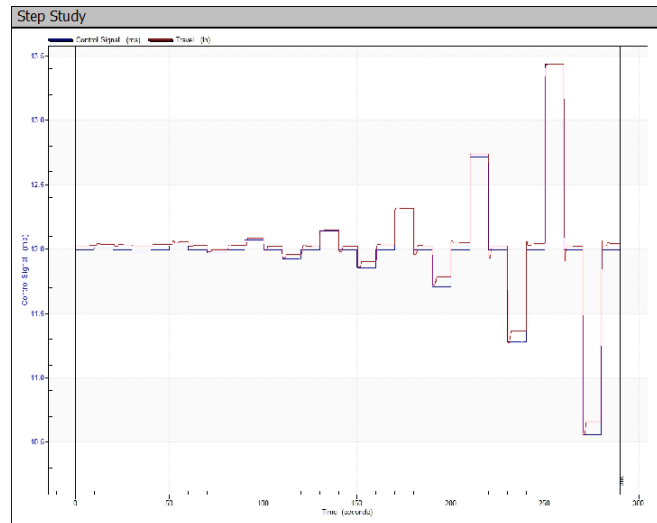
### Step Study Report

**Step Study Report**

Wednesday, July 27, 2016  
5:33:31 PM



Tag # **Test 2016.153**  
Serial # FCV612  
WO # CSD12346879  
Test Time 06/03/2016 11:19:24



Test Setup: (16155F002411)	Additional Comments
Start: 12 mA    Hold Time: 10 sec # of Steps: 7    Min Signal: 4.8 mA Test Frequency: 50 Hz    Max Signal: 19.2 mA  Comment: Report Generation Test Complete test at 50Hz	

## 2016 – New Features – FlowScanner Reports

### Step Change Report

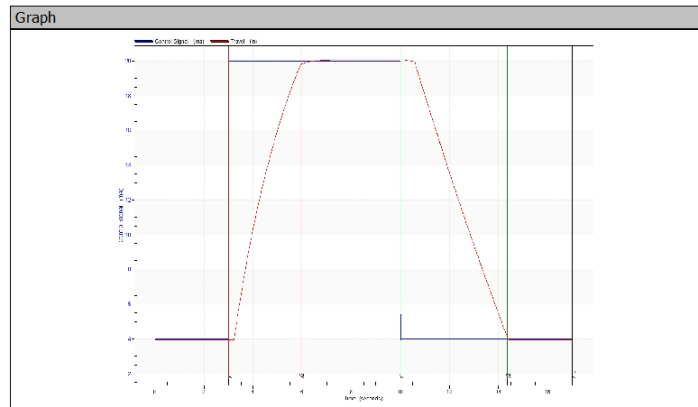
#### Step Change Report

AF / AL: As-Left  
 Wednesday, July 27, 2016  
 5:47:12 PM



Tag # **Test 2016.153**  
 Serial # FCV612  
 WO #  
 Test Time 06/03/2016 10:17:25

Step Change Analysis		
Marker	Time	Time Difference:
o1	3.0008 sec	
o2	5.9543 sec	3.0 sec To Open
c1	10.0008 sec	
c2	14.3708 sec	4.4 sec To Close



Test Setup: (16155F002406)	Additional Comments
Start: 4 mA    PreTest: 3 sec End: 20 mA    Hold Time: 7 sec Test Frequency: 25000 Hz    PostTest: 7 sec  Comment:	



## 2016 – New Features – FlowScanner Reports

### Drop Test Report

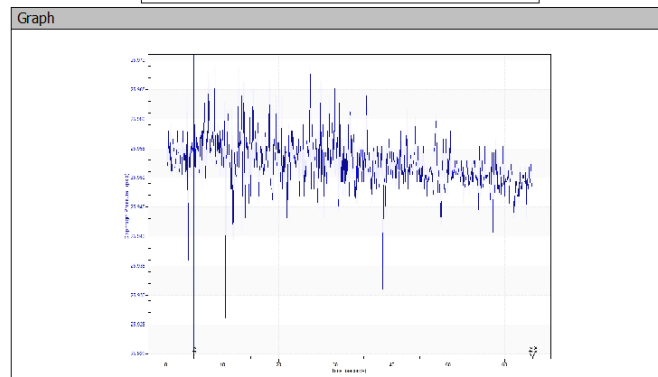
**Drop Test Report**

AF / AL: As-Left  
 Wednesday, July 27, 2016  
 6:05:25 PM



Tag # **2-LCV-006-0061B**  
 Serial #  
 WO #  
 Test Time 03/22/2015 10:45:58

Drop Test Analysis		
	Measured	
Elapsed Time:	60	sec
Starting Pressure:	25.95	psig
Ending Pressure:	25.95	psig
Pressure Drop:	0.003672	psig
Pressure Drop:	0.003672	psig/min



Test Setup: (15081a01)	Additional Comments
Start: 3.7 ma    Hold Time: 60 sec End: 20 ma        PreTest: 5 sec Test Frequency: 10 Hz  Comment: A/L AFTER REPLACING POSITIONER AND REGUL 1ST RUN after MMG replaced diaphragm	



## Quiklook Version 2016.343

- Resolves Software Error Notice 2016.236.1
- The sensitivity calculator for c-clamp on threads may produce incorrect thrust sensitivity



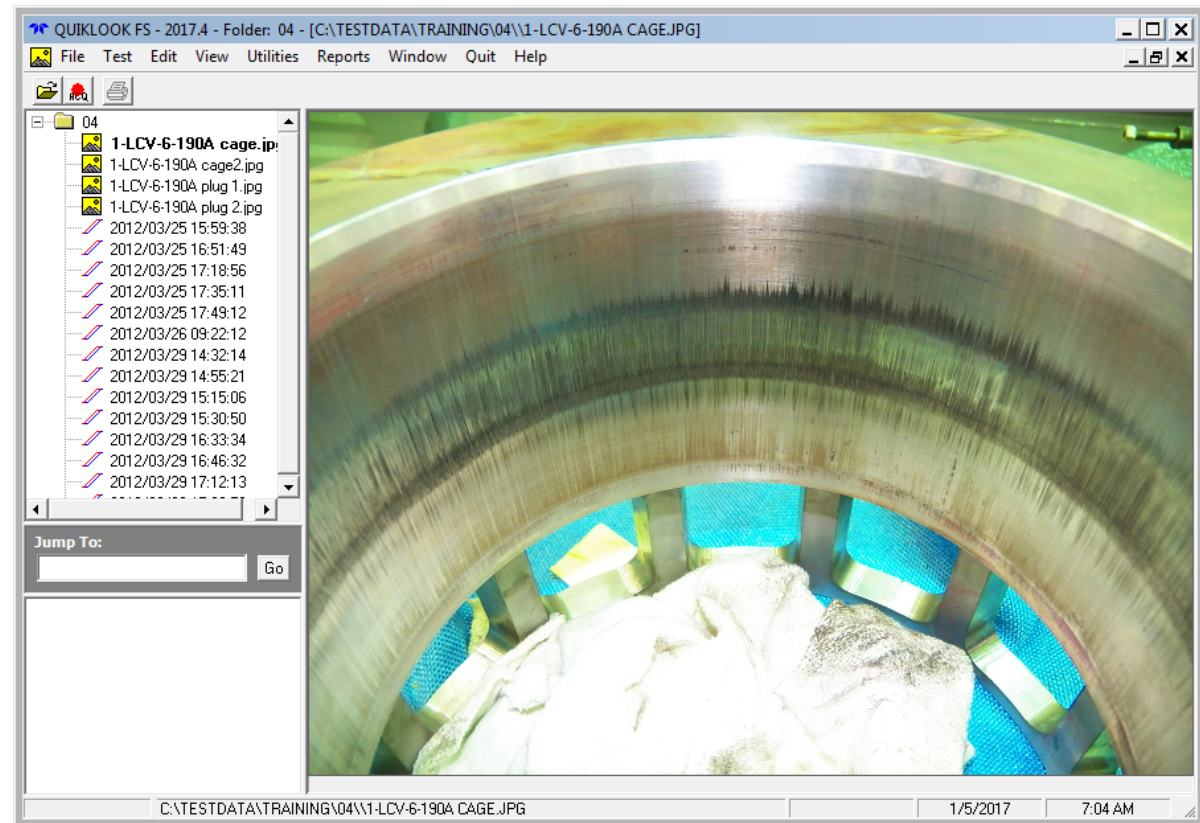
## Quiklook Version 2016.365

- Resolves Software Error Notice 2016.236.1
- If two instances of Quiklook are started on an acquisition system then the acquisition boards may lose their firmware settings causing the system to become inoperable
- It is strongly recommended anyone using version 2015.208 or later upgrade to Version 2016.365



## Quiklook 2017

- Add Picture Icons
- AOV & MOV
- FlowScanner Mode Only





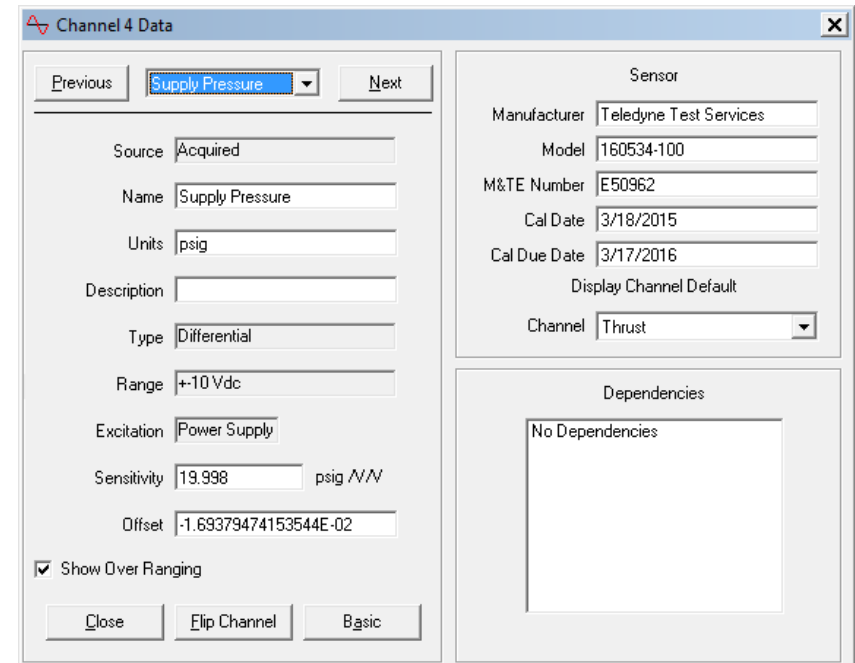
## Quiklook 2017

- Channel Names on TEDS
  - Used only for MVA & MVM boxes
  - MVM channels names must be Va, Vb & Vc
  - MVA channel names must be Vab, Vbc & Vca
  - When the new MVA box is used and channel names are not switched from MVM nomenclature wrong results are calculated
  - Channel names on TEDS chip will eliminate using the wrong channel names for Motor Power
  - Default channels names changed to Vab, Vbc & Vca



## Quiklook 2017

- Serial # on TEDS was always replaced by the customers M&TE Number
- TTS Serial # is added to TEDS in addition to M&TE Number
  - TTS Serial # not shown on Test
  - TTS Serial # for traceability so if a sensor is returned for any reason we will have the original serial number
- Field on replay renamed to M&TE Number



Channel 4 Data

Previous **Supply Pressure** Next

Source: Acquired

Name: Supply Pressure

Units: psig

Description:

Type: Differential

Range: +-10 Vdc

Excitation: Power Supply

Sensitivity: 19.998 psig/V

Offset: -1.69379474153544E-02

Show Over Ranging

Close Flip Channel Basic

Sensor

Manufacturer: Teledyne Test Services

Model: 160534-100

M&TE Number: E50962

Cal Date: 3/18/2015

Cal Due Date: 3/17/2016

Display Channel Default

Channel: Thrust

Dependencies

No Dependencies



## Quiklook 2017

- Units Preference
  - Previously only applied to AOV Outputs
  - Now applies to both MOV & AOV
  - Applies to:
    - Live readings during acquisition
    - Graph axis
    - Marker table
    - Running Loads
  - Results in test file are saved in “System Units”



Units

User Units

Linear  
 in  mm

Area  
 in<sup>2</sup>  mm<sup>2</sup>

Force  
 lbs  N  daN

Torque  
 in-lbs  ft-lbs  N-m

Spring Rate  
 lbs/in  N/mm  daN/mm

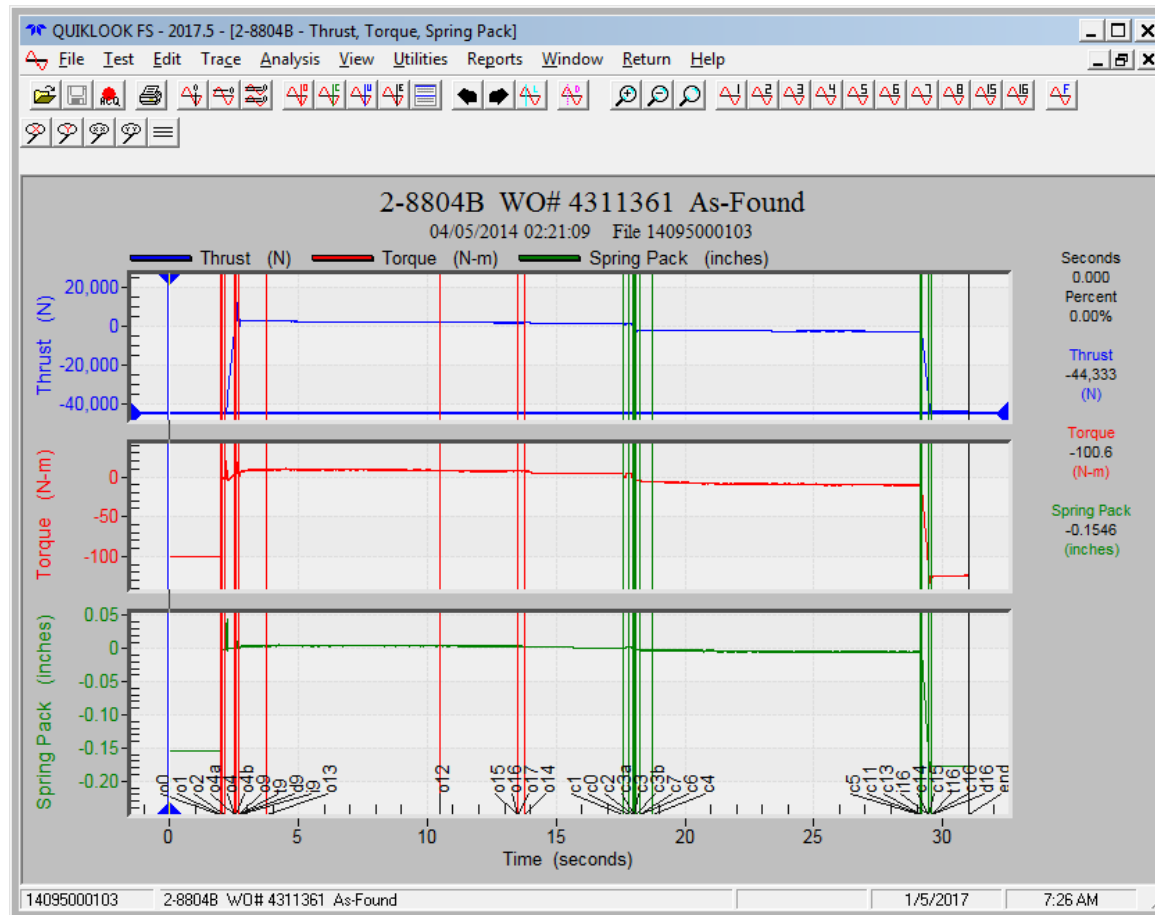
Pressure  
 psi  kpa  kg/cm<sup>2</sup>  bar

Seat Load (Sliding Stem)  
 lbs/in  N/mm  daN/mm

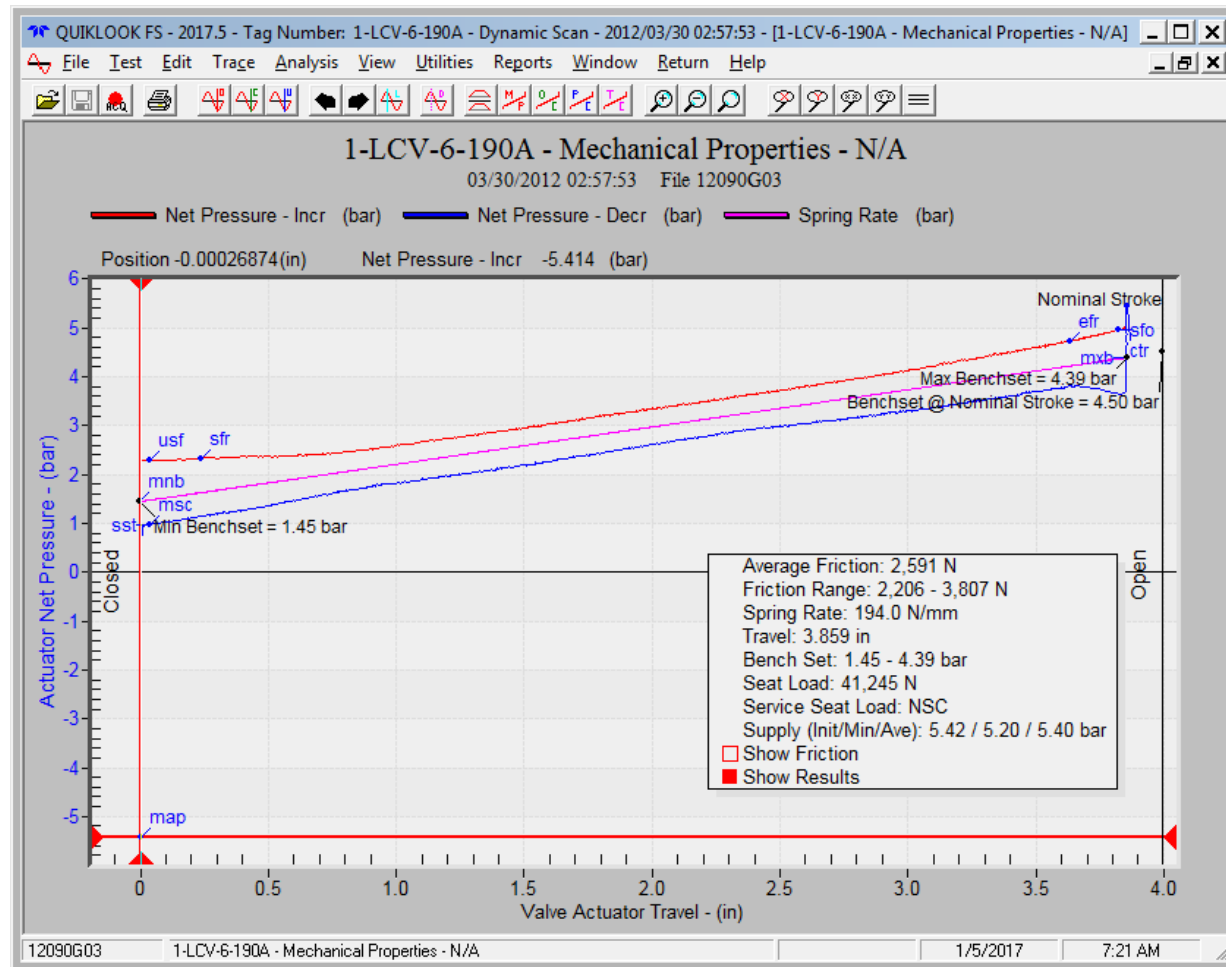
Seat Load (Rotary)  
 ft-lbs/in  N-m/mm

OK Cancel

## Quiklook 2017

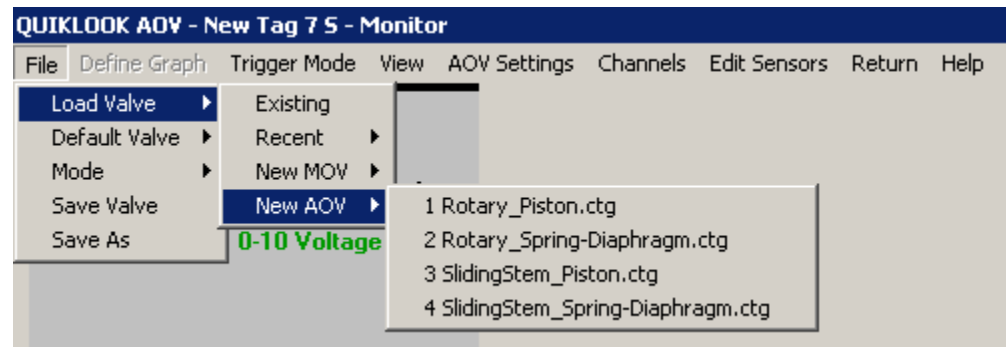


## Quiklook 2017



## Quiklook 2017

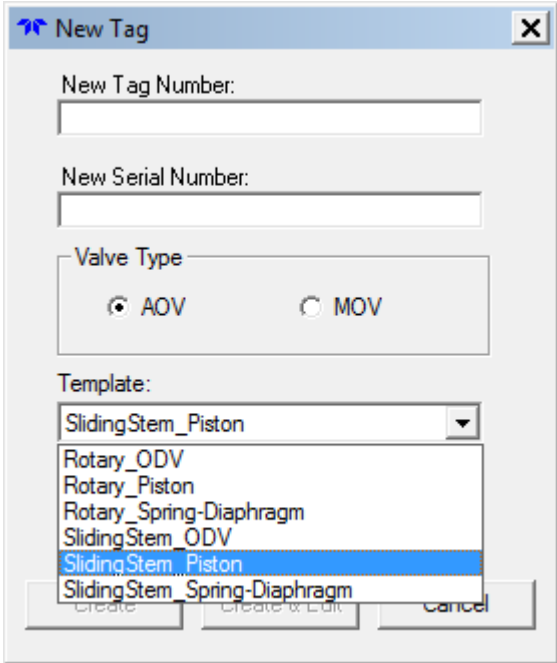
- Added separate Directories for AOV & MOV Configuration Templates



# Quiklook Software Update

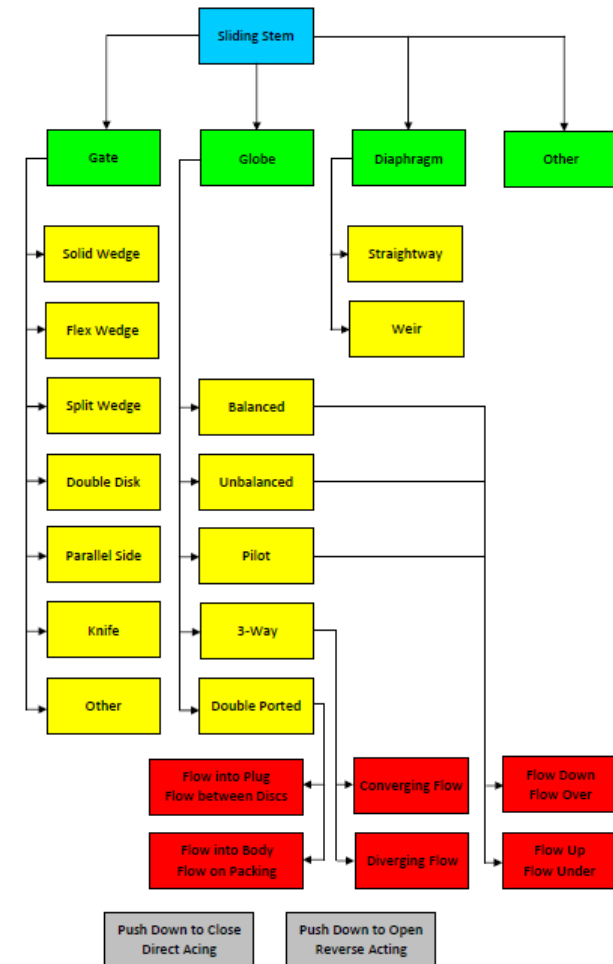
## Quiklook 2017

- Added Default Valves to Create Tag Form



## Quiklook 2017

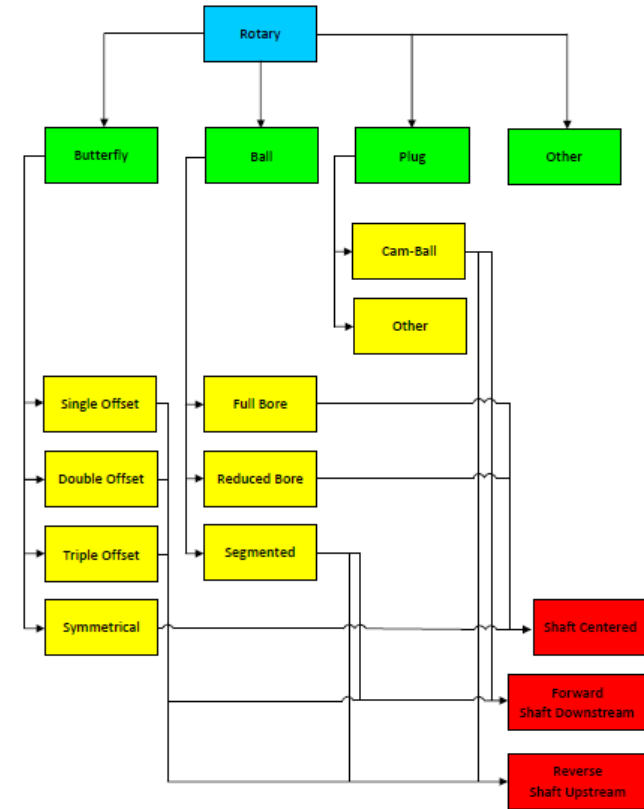
- New Valve properties to better define valve
  - Valve Type
  - Valve Sub Type
  - Flow Direction
  - Valve Action



Legend	
Blue	= Valve Configuration
Green	= Valve Type
Yellow	= Valve Sub Type
Red	= Valve Flow Direction
Gray	= Valve Action

## Quiklook 2017

- New Valve properties to better define valve
  - Valve Type
  - Valve Sub Type
  - Flow Direction
  - Valve Action



Legend	
Blue	= Valve Configuration
Green	= Valve Type
Yellow	= Valve Sub Type
Red	= Valve Flow Direction
Gray	= Valve Action

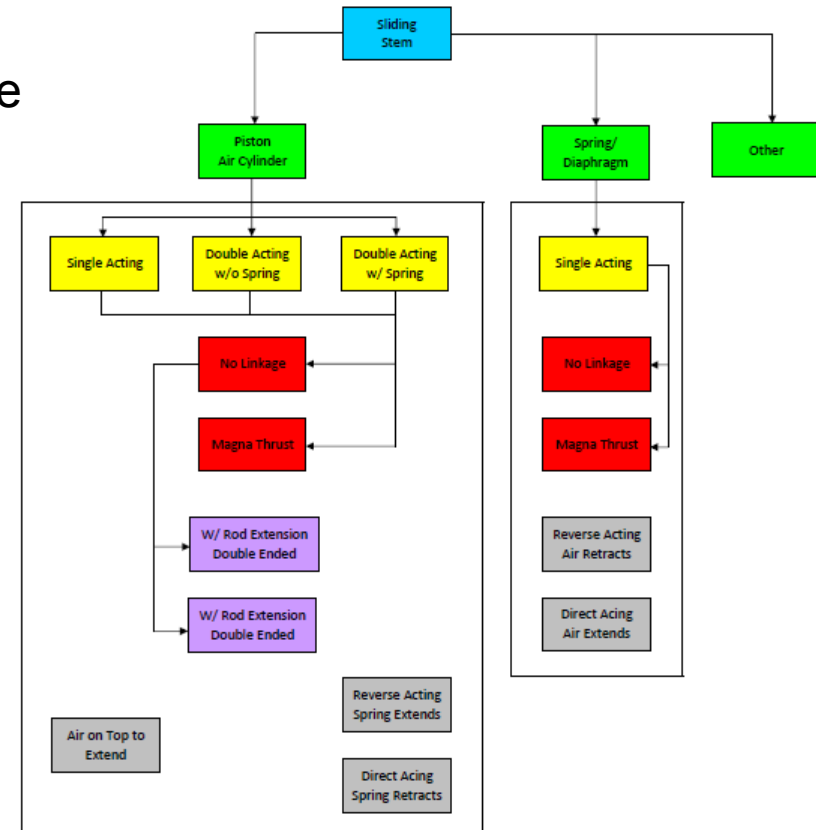
Push Down to Close  
Direct Acting

Push Down to Open  
Reverse Acting

## Quiklook 2017

- New Actuator properties to better define actuator
  - Actuator Type
  - Actuator Sub Type
  - Actuator Linkage
  - Piston Rod
  - Actuator Action

Legend	
Blue	= Valve Configuration
Green	= Actuator Type
Yellow	= Actuator Sub Type
Red	= Actuator Linkage
Purple	= Piston Rod
Gray	= Actuator Action

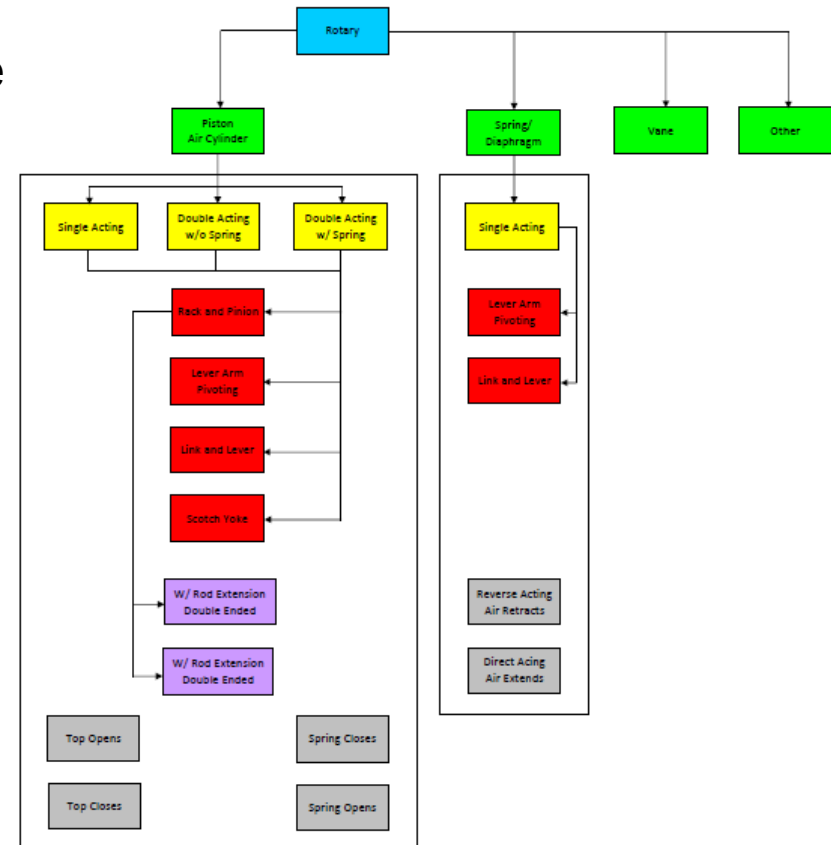




## Quiklook 2017

- New Actuator properties to better define actuator
  - Actuator Type
  - Actuator Sub Type
  - Actuator Linkage
  - Piston Rod
  - Actuator Action

Legend	
Blue	= Valve Configuration
Green	= Actuator Type
Yellow	= Actuator Sub Type
Red	= Actuator Linkage
Purple	= Piston Rod
Gray	= Actuator Action





## Quiklook 2017

- Flip Channel Option on Trace Menu
- Preference to show Opening Screen
- Show Thrust Curve by Default Preference Added (AOV)





## Enhancements / Wish List

### Future Enhancement Survey Results - QUG 10

•SA – Strongly Agree – We should proceed with this ASAP

•A – Agree – We should proceed

•NC – No Comment

•D – Disagree – Would not use it

•SD – Strongly Disagree – Should not be implemented at all



## Enhancements / Wish List

	SA	A	NC	D	SD	Implemented
1. Compare Valve Tag Data to ACE	5	8	16			No
2. Desktop Configuration	12	12	4			2018
3. TEDS and Unit Preferences	2	7	16	3		2017





## Enhancements / Wish List

	SA	A	NC	D	SD	Implemented
4. Spike Removal Notification	11	13	4	1		2018
5. Marker List to Stay Open	3	16	6	3	1	2018
6. QSS w/ TEDS	2	8	10	8		No



## Enhancements / Wish List

	SA	A	NC	D	SD	Implemented
7. Channel Names on TEDS		6	12	9	2	2017
8. Plug anything in anywhere		2	9	16	2	No
9. Pictures in Quiklook	9	12	5	3		2017



## Enhancements / Wish List

	SA	A	NC	D	SD	Implemented
10. Record video w/ sound	5	6	11	3	1	No
11. Zoom Y	7	7	13	2		2018
12. Swap Channels by Channel Name		2	23	2	2	No
13. Seat Load Indicator	1	10	15	3		2018

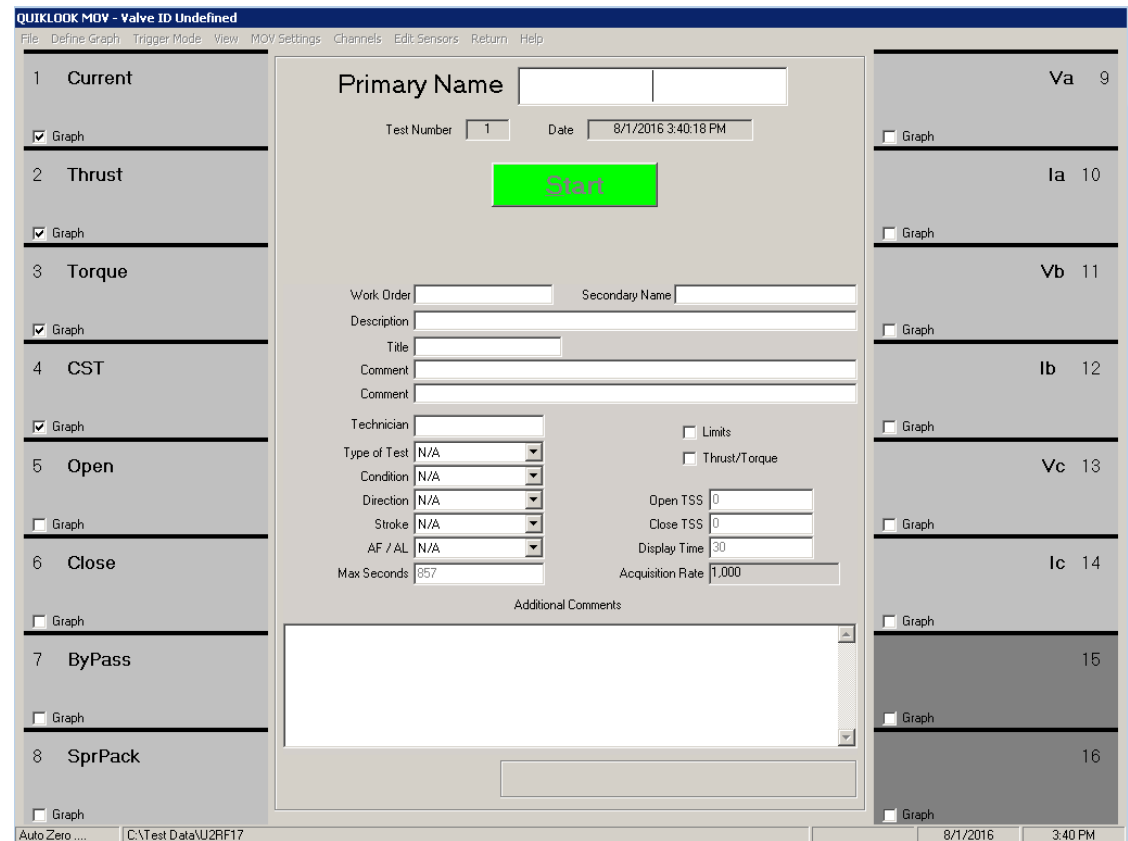


## Quiklook 2018



## Quiklook 2018 Desktop Configuration

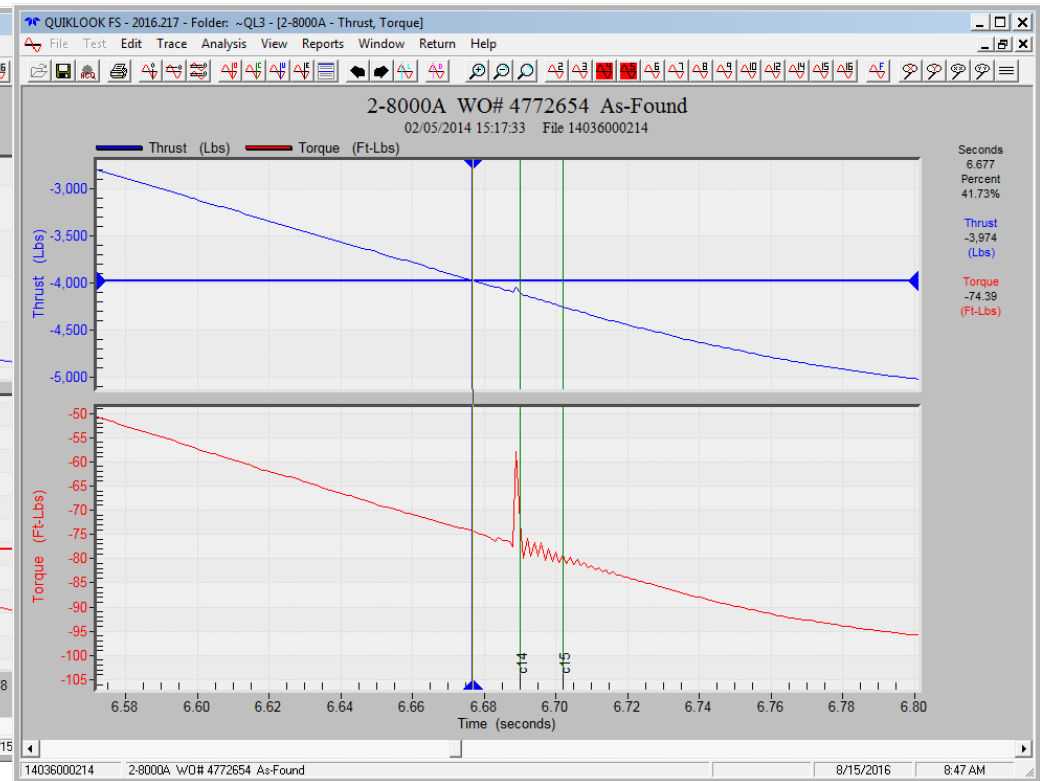
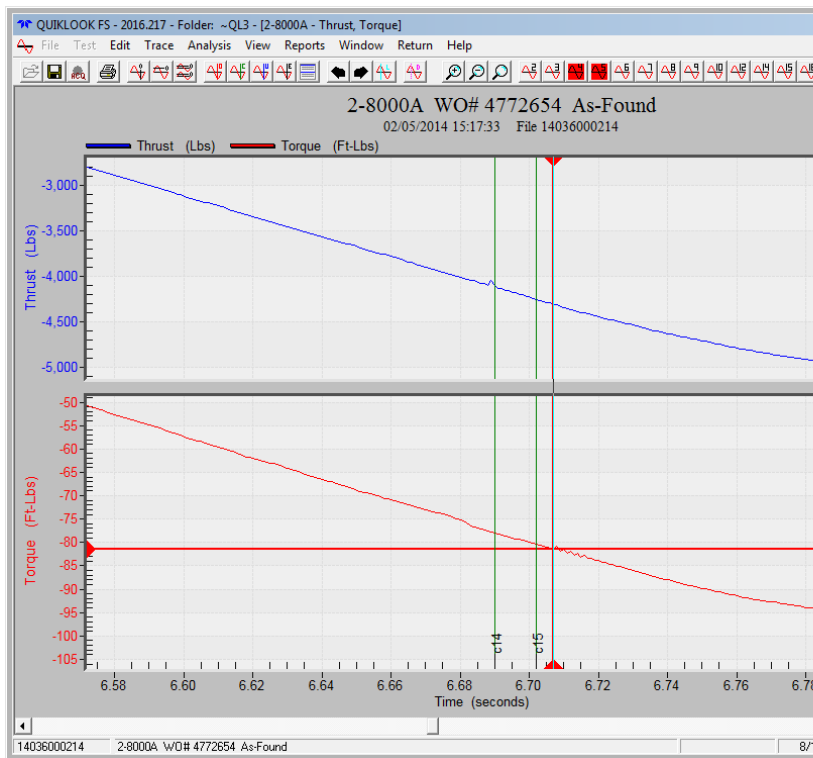
- Eliminate old configuration form
- Configuration done using acquisition screen
- Start Button disabled since on desktop
- One consistent method for doing configurations for both desktop and field



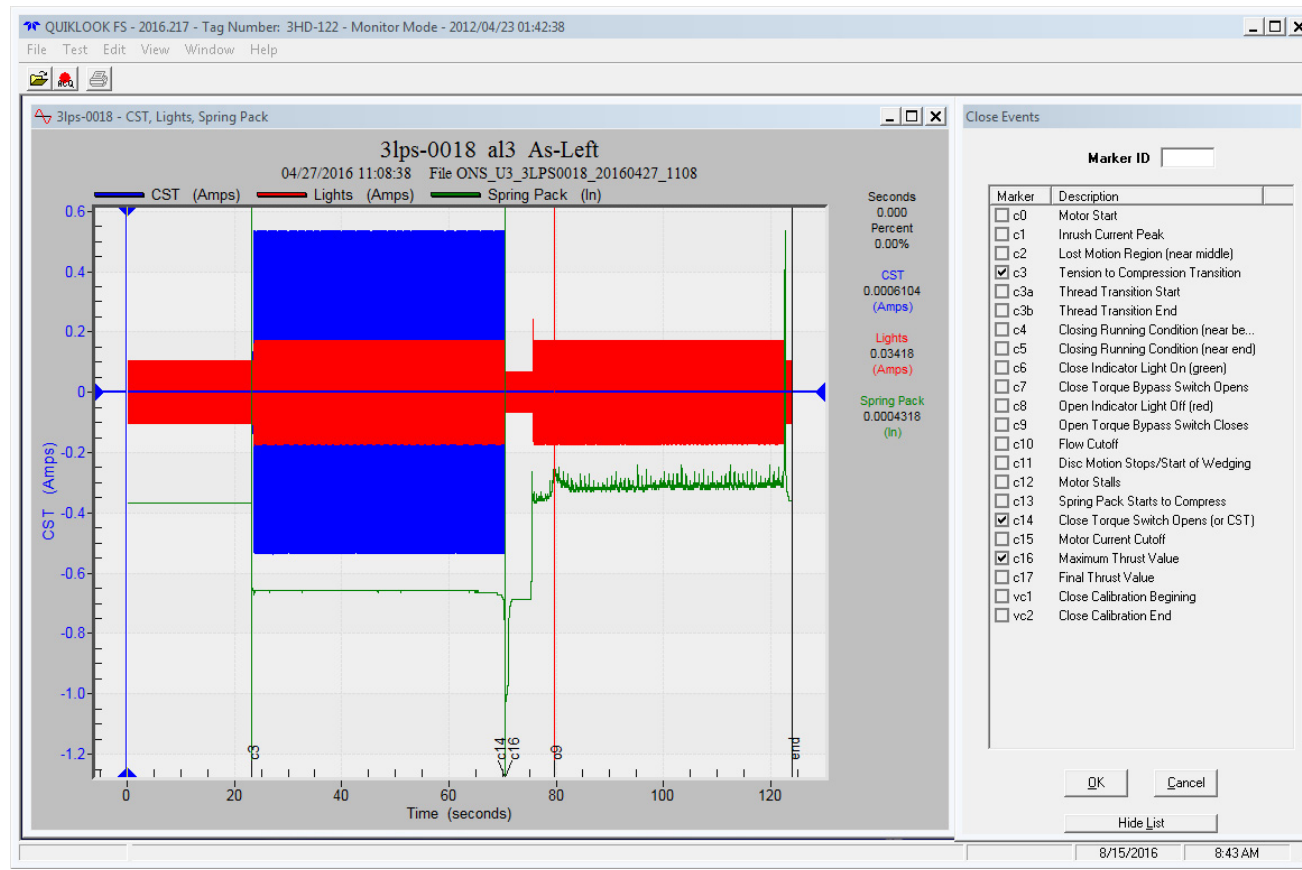
## Quiklook 2018

### Spike Removal Notification

- Spike removal notification on screen & reports



## Quiklook 2018 Marker List to Stay Open





## Quiklook 2018

### Windows 10 Acquisition

- Current Quiklook systems are Windows 7
- Windows 7 will no longer be available
- Windows 10 has proven to be a stable platform





## Quiklook 2018

### Define Graph Limits on TEDS

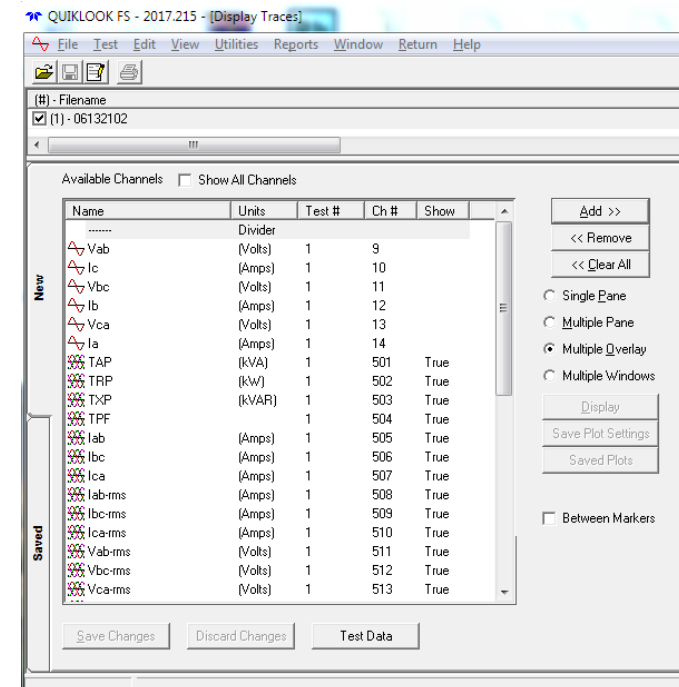
- TEDS chips can contain the min max values for the replay graphs during acquisition



## Quiklook 2018

### MVA – Current rms

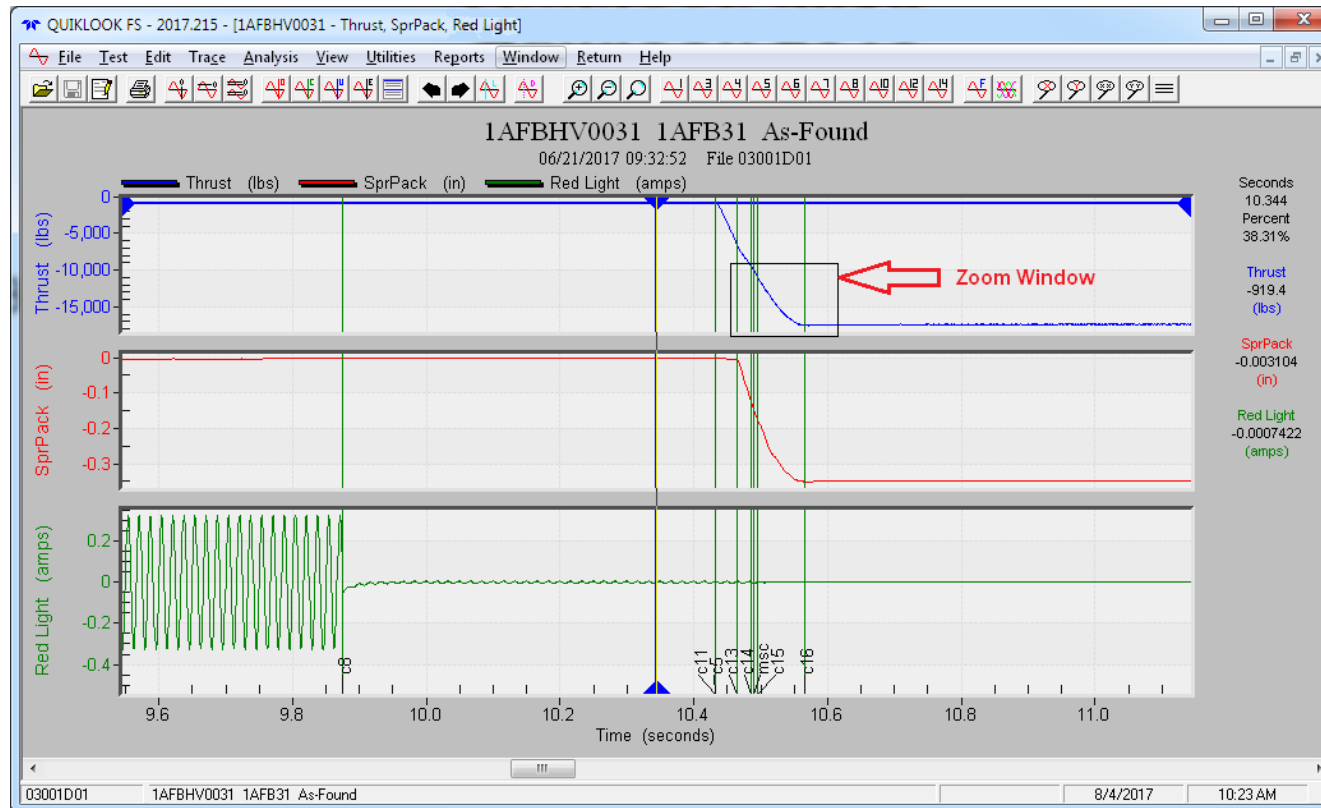
- Ia, Ib & Ic are recorded
- Only Iab rms, Ibc rms & Ica rms are calculated
- Ia rms must be calculated using rms function off Analysis menu



## Quiklook 2018

### Zoom Y

- Zoom Y – Being able to zoom in while in multiple pane mode





## **Quiklook 2018 Configuration Database**

- Add other Vendor Actuator Tables and Valve Data to configuration database







## Quiklook 2018

### Seat Load Indicator

- Device would clamp onto stem
- Would show seating profile only



# Any Questions?

THANK YOU



**TELEDYNE LECROY TEST SERVICES**  
Everywhereyoulook™