

VKViewer5 Tutorial

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0. Overview

The document is a brief outline of some of the operational functions of the VKViewer 5 program. It's mainly screen captures with explanations of major functions.

VKViewer is a companion program for ValvKeep and allows the valve end user the ability to view, report and analyze their repair information from any web-browser.

VKViewer is unlike any other web-based valve repair and maintenance tool we've seen. VKViewer is truly a web-application. It's fully interactive and is far more capable than some simple static HTML display pages.

We recommend you run VKViewer with screen resolution higher than 1024 by 768 pixels.

1. Login

Login the VKViewer before using the VKViewer. The login page is as below.

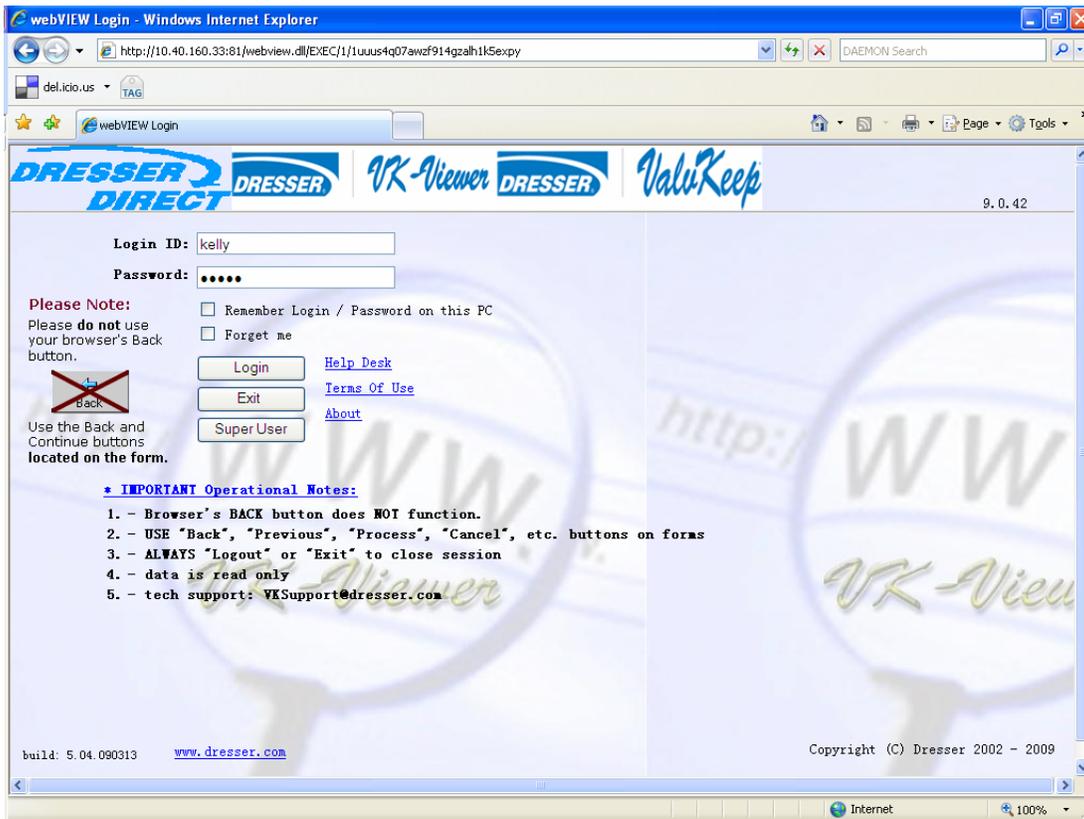


Figure 1-1: Login

To login VKViewer:

Enter your 'Login ID' and 'Password' then click the Login button and launch the VKViewer

Function Description:

Remember login/password on this PC

Remember the login information each time.

Forget me

Clear the login information kept on this PC.

Help Desk

Send an email to VKV Support Group of Dresser.

Terms of Use

Show Terms of use and privacy statement.

About

Provide a simple introduction about VKViewer.

Super User

Advanced functions for administrator of VKViewer

Remarks:

Please carefully read about the IMPORTANT OPERATIONAL NOTES.

2. Main Page

After successful login to the system, user will see the Main page of VKViewer. It is shown as below:

The screenshot shows the main page of the VKViewer application. The page has a header with the Dresser Direct logo and navigation tabs like 'Exit', 'Query', 'Columns', 'Find', 'Default', 'Data Sheet', and 'All Reports'. Below the header is a table of valve data. The table has columns for ID, status, part number, location, manufacturer, and dates. The table is filtered to show 50 entries. The interface includes navigation menus, search options, and a footer with version information and a manual link.

| ID | Status | Part Number | Location | Manufacturer | Part Number | Date | Date |
|-------|--------|-------------|--------------|--------------|-----------------------|----------|----------|
| 30) | True | PCV9598 | | | | | |
| 31) | True | FV 2156 | | FISHER | 864 7611 | | |
| 32) | True | FV 2156 | | FISHER | 864 7611 | | |
| 33) | True | FV-A447 | MO2-SL0580-1 | Fisher | | 06/14/07 | 06/14/07 |
| 34) | True | FV-C324 | MO2-RL0597-1 | Fisher | 023FETCS-66740-3582 | 03/13/06 | 03/13/07 |
| 35) | True | FV-C326 | MO2-RL0600-1 | Fisher | 033FEDCS-65740 | 03/14/06 | 03/14/07 |
| 36) | True | FV-C330 | MO2-RL0598-1 | Fisher | 023FEZCS-66746-3582 | 03/14/06 | 03/14/07 |
| 37) | True | FV-C422 | MO2-SL0477-1 | Fisher | | 06/06/07 | 06/06/08 |
| 38) | True | FV-C422 | | Fisher | | 05/16/07 | 05/16/08 |
| 39) | True | FV-C422 | MO2-RL0604-1 | Fisher | 02X13FEDCS-65740-3582 | 03/13/06 | 03/13/07 |
| 40) | True | FV-C441 | MO2-RL0605-1 | Fisher | 023FEDCS-65740-3582 | 03/16/06 | 03/16/07 |
| 41) | True | FV-C442 | MO2-RL0606-1 | Fisher | 023FEDCS-65740-3582 | 03/16/06 | 03/16/07 |
| 42) | True | FV-C443 | MO2-RL0607-1 | Fisher | 023FEDCS-65740-3582 | 03/13/06 | 03/13/07 |
| * 43) | True | FV-C444 | MO2-RL0608-1 | Fisher | 023FEDCS-65740-3582 | 03/13/06 | 03/13/07 |
| 44) | True | FV-C445 | MO2-RL0609-1 | Fisher | 023FEDCS-65740-3582 | 03/13/06 | 03/13/07 |
| 45) | True | FV-C446 | MO2-RL0610-1 | Fisher | 023FEDCS-65740-3582 | 03/13/06 | 03/13/07 |
| 46) | True | FV-C447 | MO2-RL0611-1 | Fisher | 023FEDCS-65740-3582 | 03/14/06 | 03/14/07 |
| 47) | True | FV-C448 | MO2-RL0612-1 | Fisher | 023FEDCS-65740-3582 | 03/16/06 | 03/16/07 |
| 48) | True | FV-C449 | MO2-RL0613-1 | Fisher | 023FEDCS-65740-3582 | 03/16/06 | 03/16/07 |
| 49) | True | FV-C450 | MO2-RL0614-1 | Fisher | 023FEDCS-65740-3582 | 03/13/06 | 03/13/07 |
| 50) | False | FV-D322 | MO2-RL1387-1 | Fisher | 063WV2CS-105240-3610J | 10/26/06 | 10/26/07 |

Figure 2-0: Main Form

Over the next few pages, we will dissect it into its functional areas but a couple overview points here.

2.1 General Operations

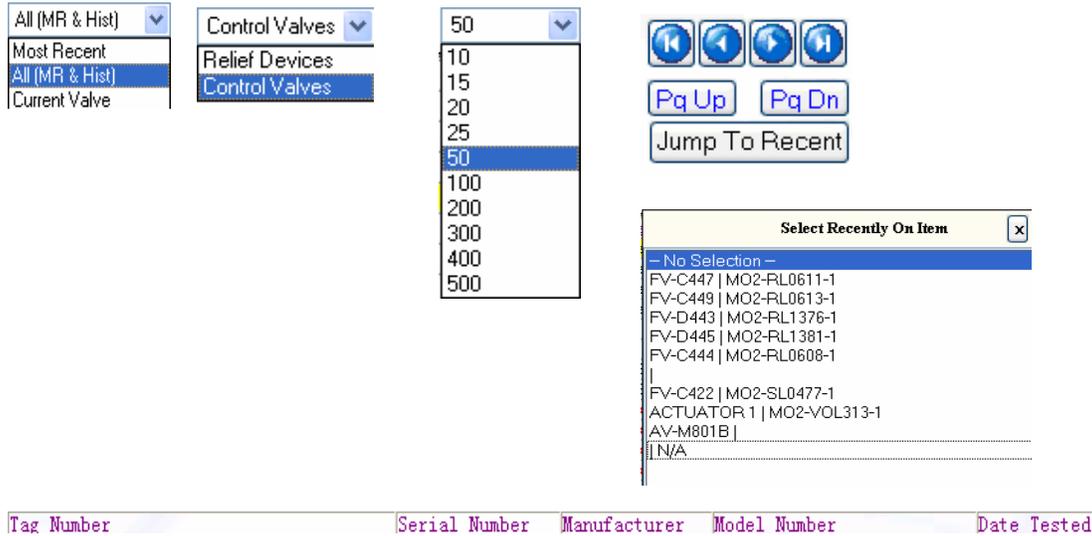


Figure 2-1: General Operation Icons

Function Description:

Most Recent, All(MR&Hist) and Current Valve

Most recent is last repair performed; All is Most Recent and all historical repairs; Current Valve limits grid to repairs for a single valve.

Relief Valves , Control Valves

Show repairs for Relief Valves or Control Valves.

Count

Set the Count of repairs in main grid.



Move to First



Move to Previous



Move to Next



Move to Last

Page Up

Turn to Previous Page (One Page Count = Count of Combo Box)

Page Down

Turn to Next Page (One Page Count = Count of Combo Box)

Jump to Recent

Jump to recently viewed repairs.

Column Header of Grid

Click the column header to sort by that column.

Remarks:

Click the row in Grid to move to it and click it again for Repair Details. See also 2.3 or 4.1

2.2 Command Panel

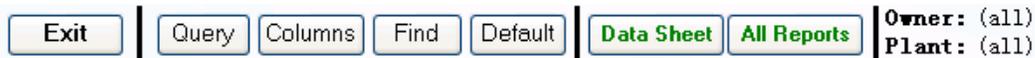


Figure 2-2: Operation Buttons Panel

Function Description:

Exit

Please always EXIT via this button.

Query

Define a filter to query. It allows the data in the grid to be criteria limited. For example, a query or filter of : Unit = 'unitX' would have the grid shown only valves in 'unitX'.

Columns

Set display columns in grid.

Find

Allow to locate repairs with given conditions.

Default

Clear any filter or query and return to default sort order and all of repairs for the current Owner / Plant.

Data Sheet

Generate a data sheet of the current repair.

All Reports

Access all the reports in VKViewer. Data sheets, Summary of Repairs, Parts In Repair, Images, Grid (Where the report is essentially the grid of repairs you are looking at) and all the rest are generated here.

Remarks:

Owner and Plant are currently selected. Which can be changed by the accessing the menu, – File | Select Owner / Plant, if authorized.

The reports are created as PDF files. They are downloaded from server to local browser and opened on local PC. Afterwards they can be saved, printed or viewed. In addition, since some reports may be large and possibly take one or more minute when the report is “generating”, please exercise patience!

Another report issue is pop-up blockers. With the advent of heavy pop-up advertising used by many sites, it is common that most of Internet Explorer and “companion tool bars” (like ones from Google and Yahoo) will block pop-ups. But the PDF report “pops up” in a new browser window on your PC leaving your VKViewer session in the original window. When a pop-up is blocked, you’ll be told and asked what to do (the “All Reports” form has much more information on this). In general, you want to “always allow pop-ups form this site” when you are asked.

2.3 Links Area

In the Links Area, there are links pointing to Repair Details, Parts, Images, Generic, Actions, Welds, Positioner, Jobs, Links, Location, Notes, To-Do List



Figure 2-3: View Panel

Function Description:

Repair Details

Display the complete Repair Details (all the data collected) for the current repair for Relief Valve or Control Valve. See also 4.1.

Parts

List the parts information for repairs. The limit options have Current Repair Only, All Repairs for Current Valves and All Repairs in Grid. The default is the first one.

Images

Display the images for repairs or valve. The limit options have Valve & Repair, Valve Only and Repair Only. The default is the first one.

Generic

Display an attachments list for repairs or valves. The limit options have Attachments for Current Repair, Attachments for the Valve, Attachments for Current Repair and the Valve, All Repairs in Grid. The default is Attachments for Current Repair.

Actions

Display some actions or remarks for valves. The limit options have Current Valve (All Repairs) and All Repairs in Grid. The default is the former.

Welds

List welds information for repairs. The limit options have Current Repair Only, All Repairs for Current Valve and All Repairs in Grid. The default is the first one.

Positioner

Display the positioner list for repairs (Only for Control Valve). The limit options have Current Repair Only, All Repairs for Current Valve and All Repairs in Grid. The default is the first one.

Jobs

Display the job detail information. The limit options have Current Job Number Only and All Job Numbers. The default is the former.

Links

Display the equipped link or loop detail information. The limit options have Current Link Only and All Links. The default is the former.

Location

Display the equipped location detail information. The limit options have Current Location Only and All Locations. The default is the former.

Notes

It is an additional note for anything and is not related to one repair or valve.

To-Do List

List all of To-Do jobs or tasks. The limit options have All, Current Owner, Current Plant, Current Valve in Grid, Any Valve in Grid and Nothing. The default is the Current Plant.

Remarks:

Parts and Welds are always attached to the specified repair.

Actions/Remarks are attached to the valve.

Generic and Images can be attached to either repair or valve.

2.4 Quick Analysis and Filter

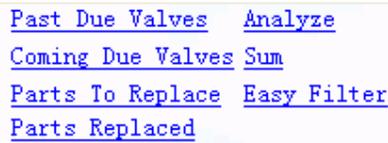


Figure 2-4: Quick Analysis and Filter Panel

Function Description:

Past Due Valves

List all of repairs that their next maintenance date has been past due. And it is only valid for Most Recent.

Coming Due Valves

List all of repairs that their next maintenance date is satisfied with the given time frame or calendar date.

NOTE: You can include or exclude past due ones.

Parts to Replace

List all parts of repairs to be replaced in next repair. It is valid for All Repairs in Grid.

Parts Replaced

List all parts of repairs having been replaced. It is valid for All Repairs in Grid.

Analyze

Give the breakdown of any field like the breakdown of Manufacturer. (# of each Manufacturer in the database)

Sum

Sum the given field. NOTE: if the field is not numeric, analyze it instead.

Easy Filter

A simple field and limit setup for a filter. (e.g. Unit = UnitX)



Figure 2-5: Quick Filter by Parts

Function Information:

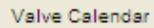
[] *Repairs with Parts Replaced*

Check to list all repairs in Grid with parts being replaced.

[] *Repairs with Parts to Replace*

Check to list all repairs in Grid with parts need to be replaced.

If both options are checked, then repairs with parts replaced and with parts to replace will be listed.

A rectangular button with a light beige background and a thin black border. The text "Valve Calendar" is centered on the button in a dark grey, sans-serif font.

Button of Valve Calendar

It's a shortcut to the analysis function for the historical repairs for the valve. One is the analysis of Coming Due and Past Due Valves the other is the Repaired Performed Analysis. See section 4.15.2 and section 4.15.3

3. Query, Columns, Find, Report

3.1 Query

There will be lots of repairs in the main grid, normally, to save processing time, you will need to apply filters on the repairs in the grid before doing further operations, such as reporting, analyzing, etc.

To apply filter on main grid

Click Query Button on the Main Page

You'll see page for filter definition

Select Columns To Filter from the dropdown list

Select How To Find

Enter What To Find

For Column of Date type, you could define the range of date for the column as filter

Click Add Above Filter Item

The Item will be shown in the Filter Definition list

You could add multiple filter items

Once you finished, click Apply Filter

System will return to Main Page, and only filtered repairs shown in the main grid.

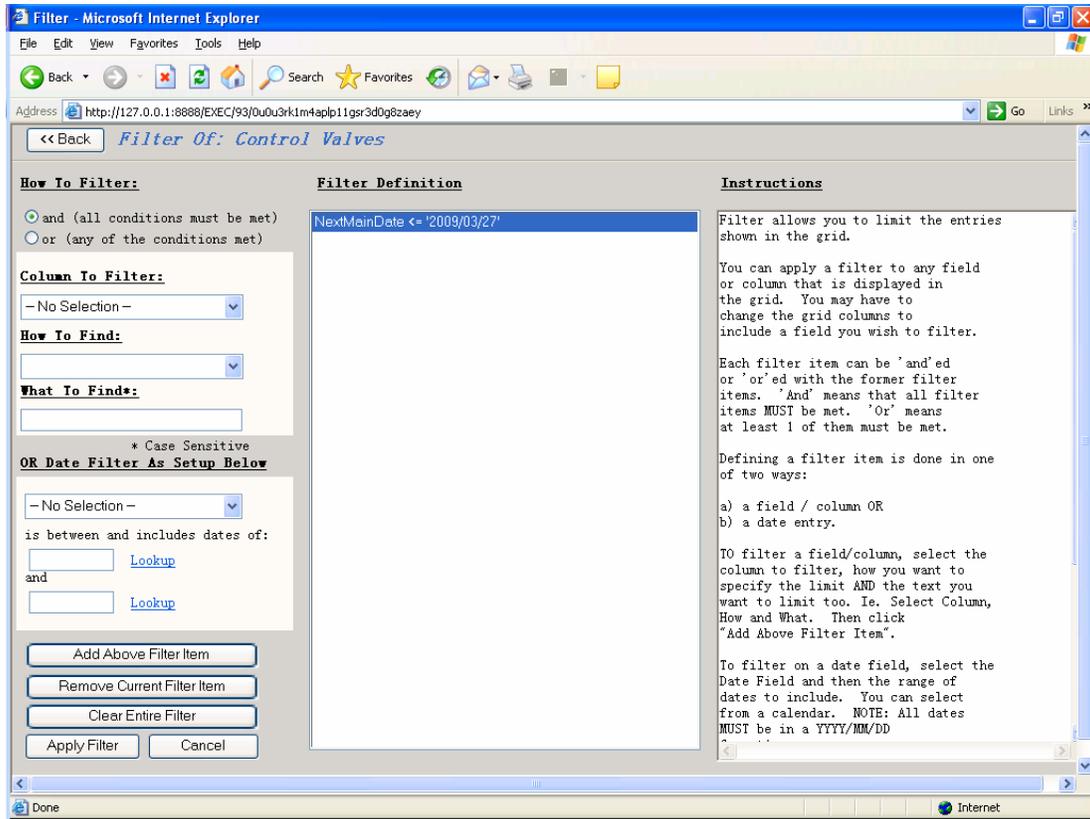


Figure 3-1: Query or Filter

Function Description:

Query may be regarded as filters. As the name implies, the function is to filter some unsatisfied information. Now VKViewer provides two kinds of filters: Easy Filter and Query here. Easy Filter is simple enough and see 4.16 for more information, however, Query is a much greater level of filtering. Because it is very flexible, you can tailor any filter to content with any specified requirement. And the function of Query is identical in sub form such as Parts, Generic form.

Filter Definition

List all filters which have been defined and added

And (all conditions must be met)

And means all filter MUST be met

Or (any of the condition met)

Or means at least one of all filters must be met

Add Above Filter Item

Add the defined filter to Filter Definition list

Remove Current Filter Item

Remove the selected filter from Filter Definition list

Clear Entire Filter

Clear Filter Definition list

Apply Filter

Apply all filters and exit, and a flag with 'Filtered' will be shown in the bottom status bar of the grid.

Cancel

Cancel the Query operation and exit

Remarks:

Click Default Button in main form or sub form will remove any filter as well as the function of menu: Commands

| Default Query

The options of 'and', 'or' are valid for more than one filter.

Always return via the << Back button in the upper left.

See also Instructions

3.2 Columns

There are quite a lot of properties for each repairs, user could select what columns shown in the grid.

To customize columns shown on the grid

Click Columns Button in Main Page

You will see following page for columns selection

Select a column from the Available Columns dropdown list

Click Add

The column will be added to the Current Displayed Columns list

Select one or more columns in the Current Displayed Columns

Click Remove Selected, columns will not display on the grid

Check additional columns if you want them shown on the grid

Click Apply return to Main Page

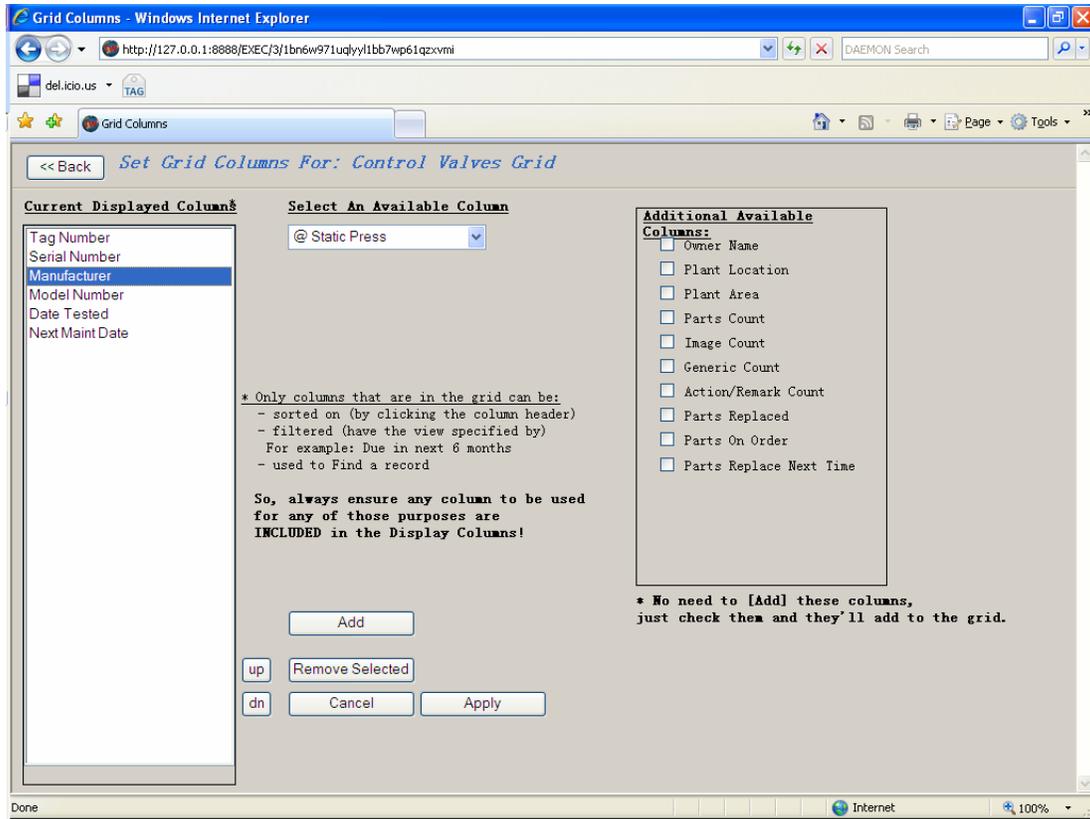


Figure 3-2: Set Display Columns

Function Description:

The Columns provides the function of setting or changing columns in grid as required, and the function is identical, wherever it is on main form or on sub-form, such as Parts or Generic form, and their operations are similar.

Add

Add the column selected from Available Column combo box to current displayed column list

Remove Selected

Remove the selected column from current displayed columns list

Up, Down

Move the currently selected column up or down in the list. NOTE: In grid, up represents the left and down represents the right

Apply

Apply new columns to corresponding grid

Cancel

Cancel the Columns operation and exit

Additional Available

The grid of main form will show those additional available columns, if they are checked and applied. However, this function is only valid for main form.

Remarks:

Click Menu: Commands | Grid Columns | Configure the "Pressure Analysis" Column, See also 4.15.4

3.3 Find

To find specific repair(s) on the main grid

Click Find Button in Main Page

Select a Column To Search

Check How To Search

Enter What To Find

Click Find First/Find Next

The system will locate the found repairs (if any)

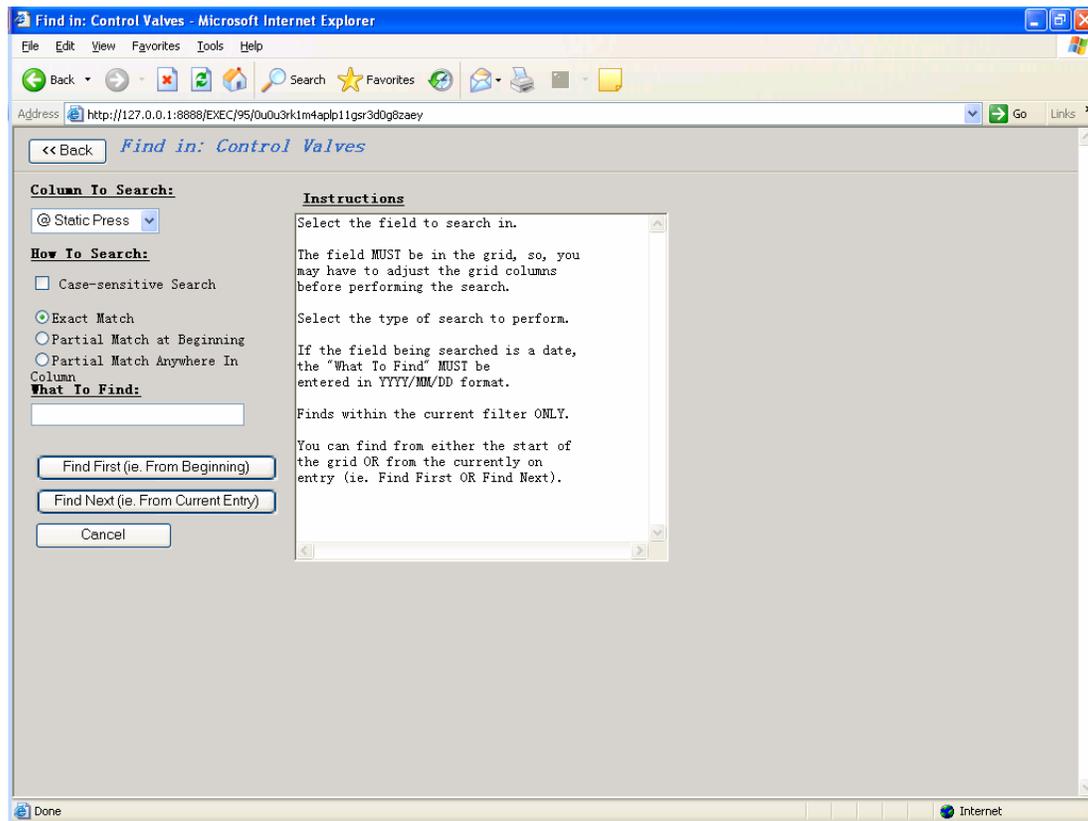


Figure 3-3: Find

Function Description:

The find is to find or search some information following by the specified condition.

Find First

Directly locate the first one in grid of the find result set

Find Next

Move to the next one in grid of the find result set

Cancel

Cancel the find operation and exit

Remarks:

Always return via the << Back button in the upper left.

See also Instructions

3.4 Reports and Data Sheet

3.4.1 All Reports

To generate a full page report

Click All Reports Button in Main Page

Select Available Reports from the list

You could choose generate report for all repairs in grid or only for the current selected repair

Click Generate-Selected Full Page Report

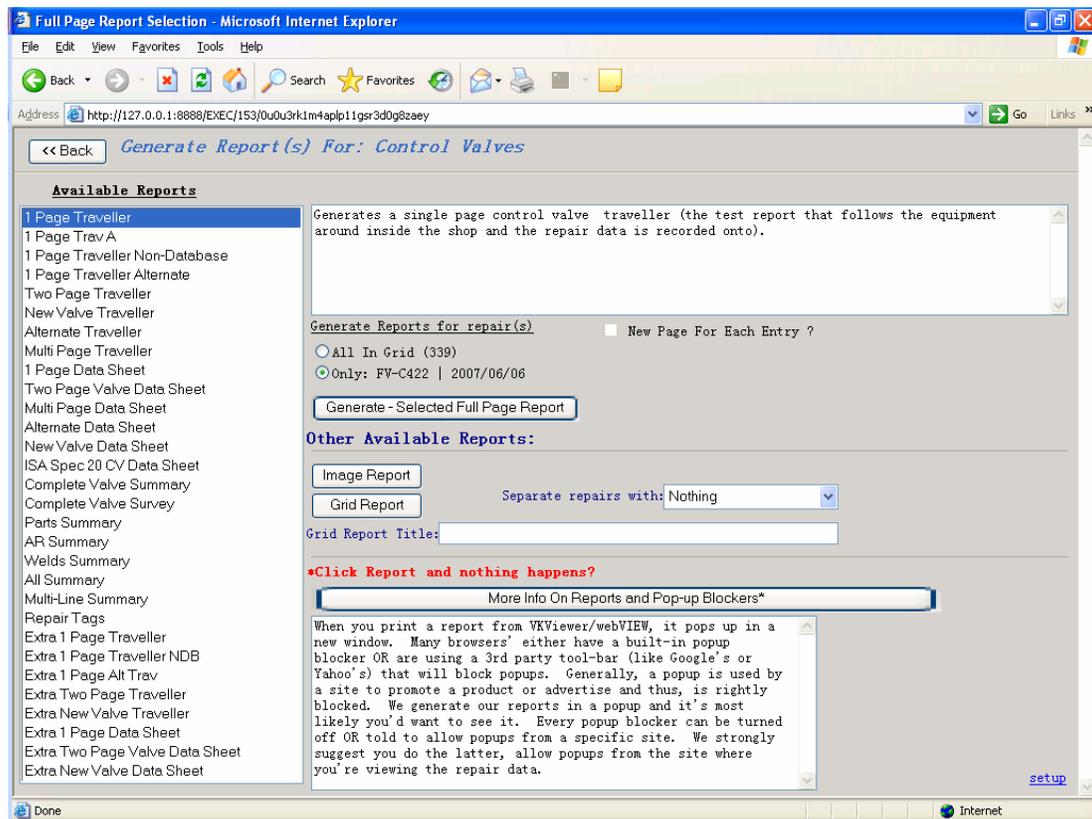


Figure 3-4: Report

Function Description:

All Reports are generated on the server as PDF files and sent down to the local PC where the browser is running, and the PDF can be saved, printed or viewed from local machine. Yet the PDF file will be presented in another browser window.

Available Reports

List all of available reports to be selected

All in Grid

Generate report for every repair in grid if checked

Only

General report for current selected repair if checked

Generate – Selected Full Page Report

Start to generate report

Image Report

Generate a report for images. See also 4.3.2

Grid Report

Directly generate a basic grid report with specified title set by Grid Report Title

More Info On Reports and Pop-up Blockers

Give help for Pop-ups

Remarks:

Pop-ups becomes much more common, whereas most Internet Explorer's and the 3rd party toolbars, like Google's and Yahoo's, block pop-ups because they are often regarded as annoying ads. But this is *not* the case. Always configure the toolbar or Internet Explorer itself to "always allow pop-ups from this site" and return via the << Back button in the upper left.

3.4.2 Data Sheet

To generate a datasheet

Click Data Sheet Button in Main Page

Function Description:

The Data Sheet will generate the report for current repairs. And its operation is very simple, with clicking the button Data Sheet, a fine PDF file report will be popped up.

Remarks:

The report of Data Sheet is configured by the operator of the VKViewer site during their configuration. Therefore VKViewer's user cannot change this report.

See also remarks of 3.4.1

4. Introduction of Other Pages

4.1 Repair Details

To view details for a repair

Click [Repair Details](#) in View as 2.3

Or, Click Menu: View | Repair Details of Current Item

Or, Click the selected row (Repair) again in Grid

You can view different data by selecting different tab

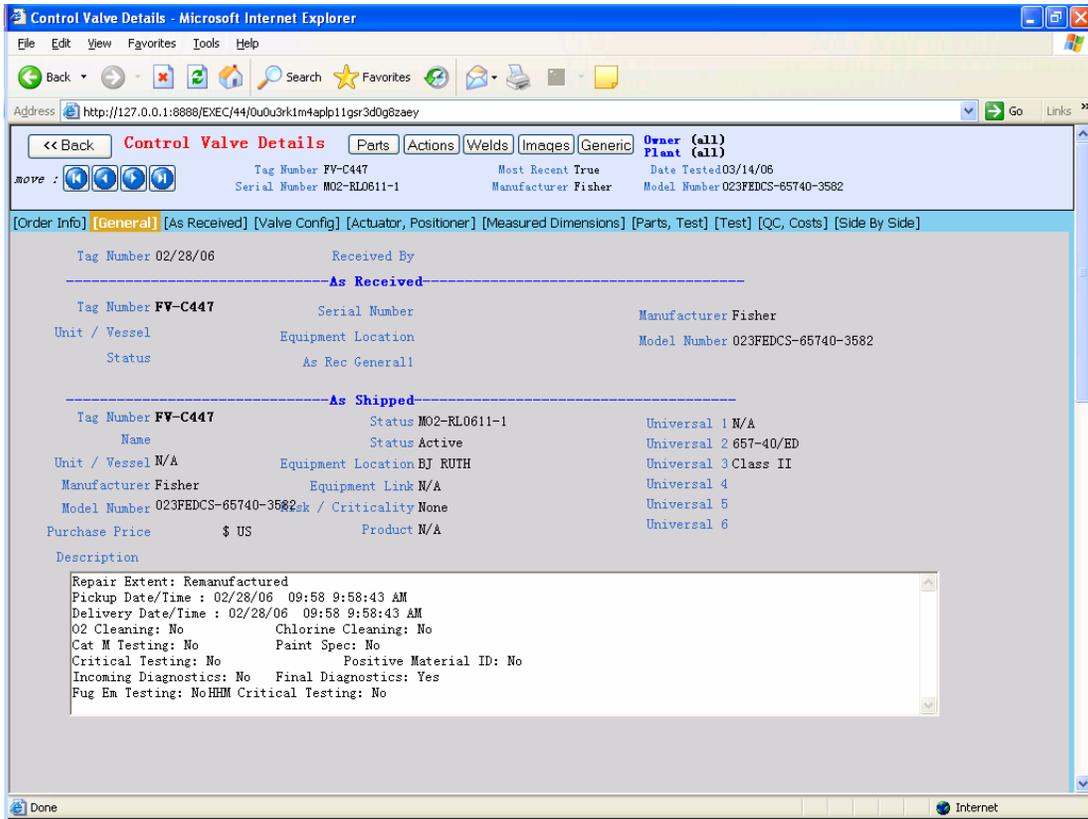


Figure 4-1: Repair Detail for Control Valve

Function Description:

Repair Detail Form provides fully comprehensive information about repair, for example, in control valve details it provides such access as Order Info, General, Config, Name Plates Process, Work as Rec'd Test, Parts Dimensions, Final Test, QC Costs, Side by Side (Comparison), and other access associated with Parts, Actions, Welds, Images, Generic etc.

Remarks:

Move to the first, previous, next, last repair in grid please see also 2.1
 Always return via the << Back button in the upper left.

4.2 Parts

Click [Parts](#) in View as 2.3

Or, Click Menu: View | Parts | Parts for Repair

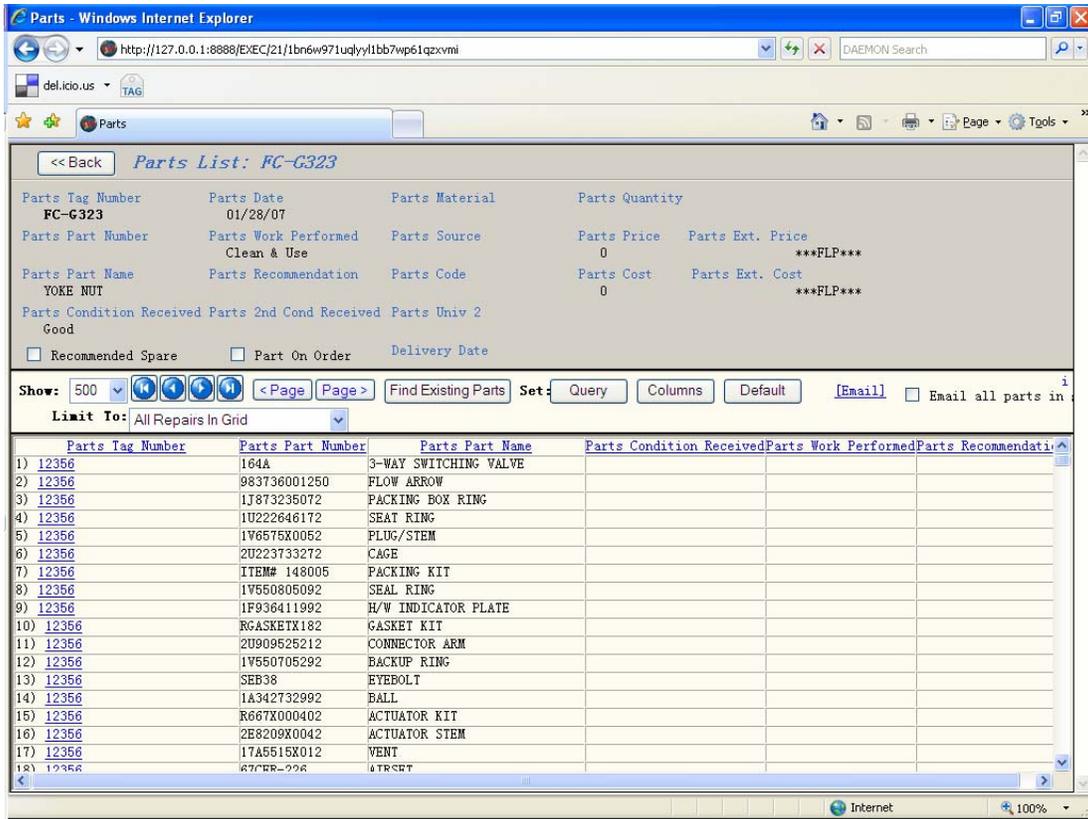


Figure 4-2: Part List

Function Information:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Limit To

It is an additional filter which can limit some given parts information in grid. The option items are Current Repair Only, All Repair for Current Valve and All Repairs in Grid, and the Current Repair Only is the default.

Find Existing Parts

Provide an additional find function for searching

Remarks:

Always return via the << Back button in the upper left.

4.3 Images

4.3.1 View Images

Launch Method:

Click [Images](#) in View as 2.3

Click Menu: View | More for Repair | Images for Valve / Repair

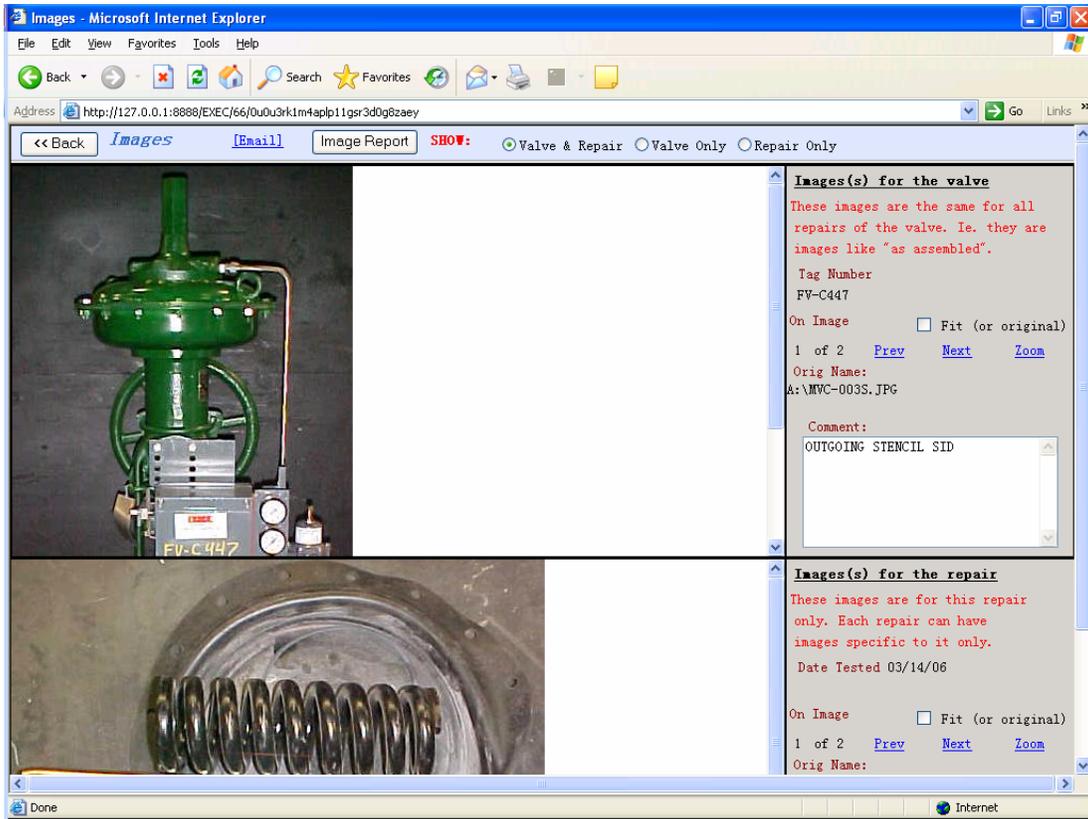


Figure 4-3-1: Image Attachments

Function Description:

The Images can display and print all of the images associated with valves and repairs.

Show Option

There are three options

Pre

View the previous image

Next

View the next image

Zoom

View the image in a larger window

Remarks:

Always return via the << Back button in the upper left.

4.3.2 Image Report

Launch Method:

Click [Images Report](#) Button in Figure 4-3-1.

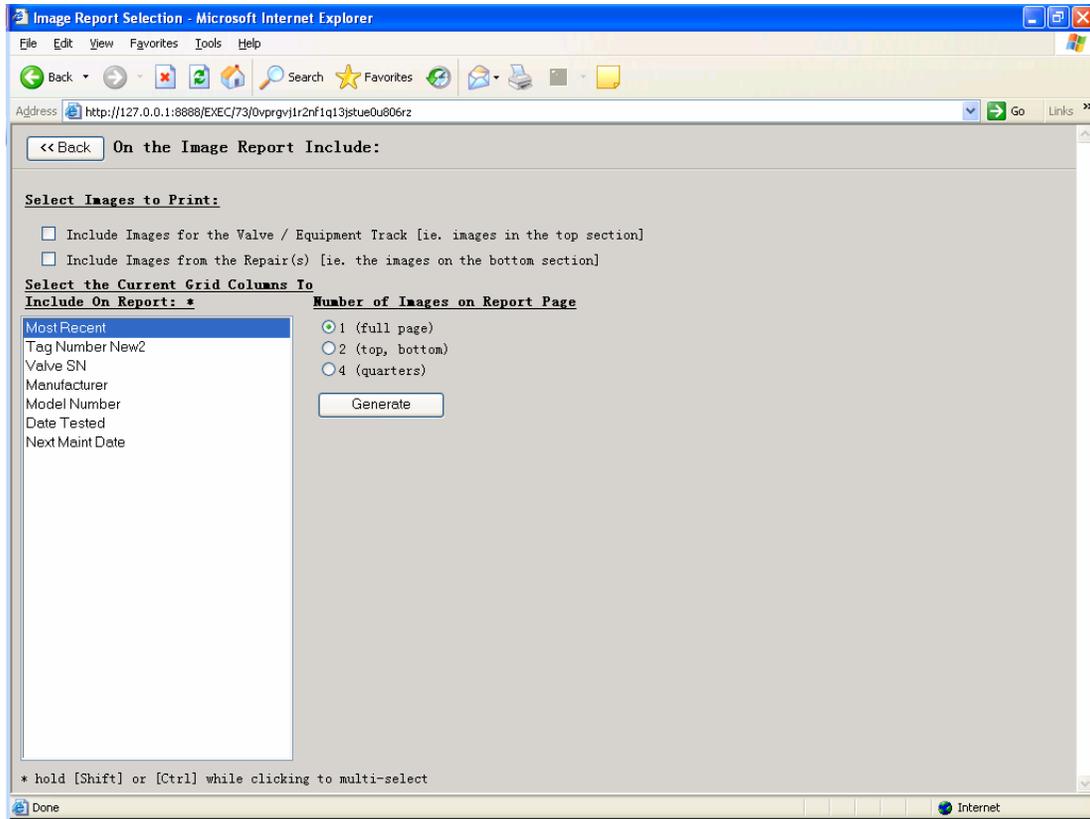


Figure 4-3-2: Image Report

Function Description:

The Image Report generates a report for images associated with valves and repairs. This report will be presented in a new pop-up window by PDF file as well.

Remarks:

Always return via the << Back button in the upper left.

4.4 Generic

Click [Generic](#) in View as 2.3

Or, Click Menu: View | More for Repair | Generic Attachments

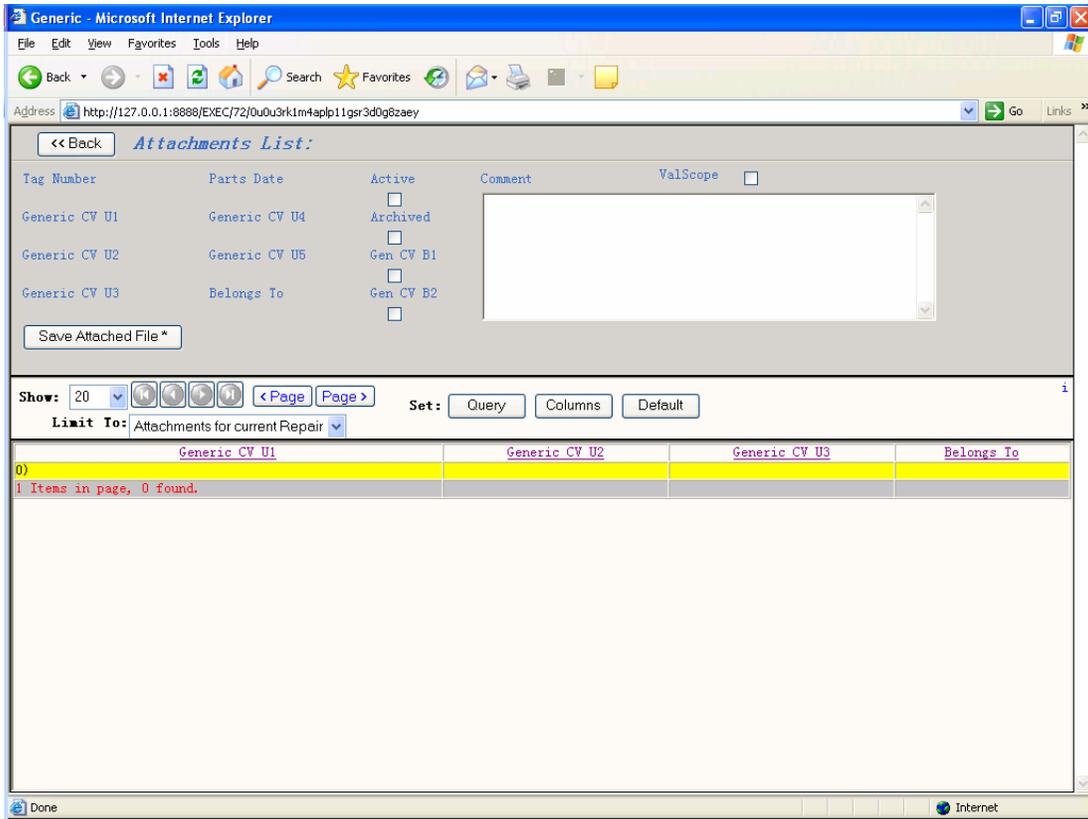


Figure 4-4: Generic Attachments

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Limit To

It is an additional filter which can limit some given attachments information in grid. The option items are Attachments for Current Repair, Attachments for the Valve, Current Repairs and the Valve, and All Repairs in Grid. The Attachments for Current Repair is the default.

Save Attached File

Provide another function for saving the attached file as local file

Remarks:

Always return via the << Back button in the upper left.

4.5 Actions

Click [Actions](#) in View as 2.3

Or, Click Menu: View | More for Repair | Actions / Remarks for Valve

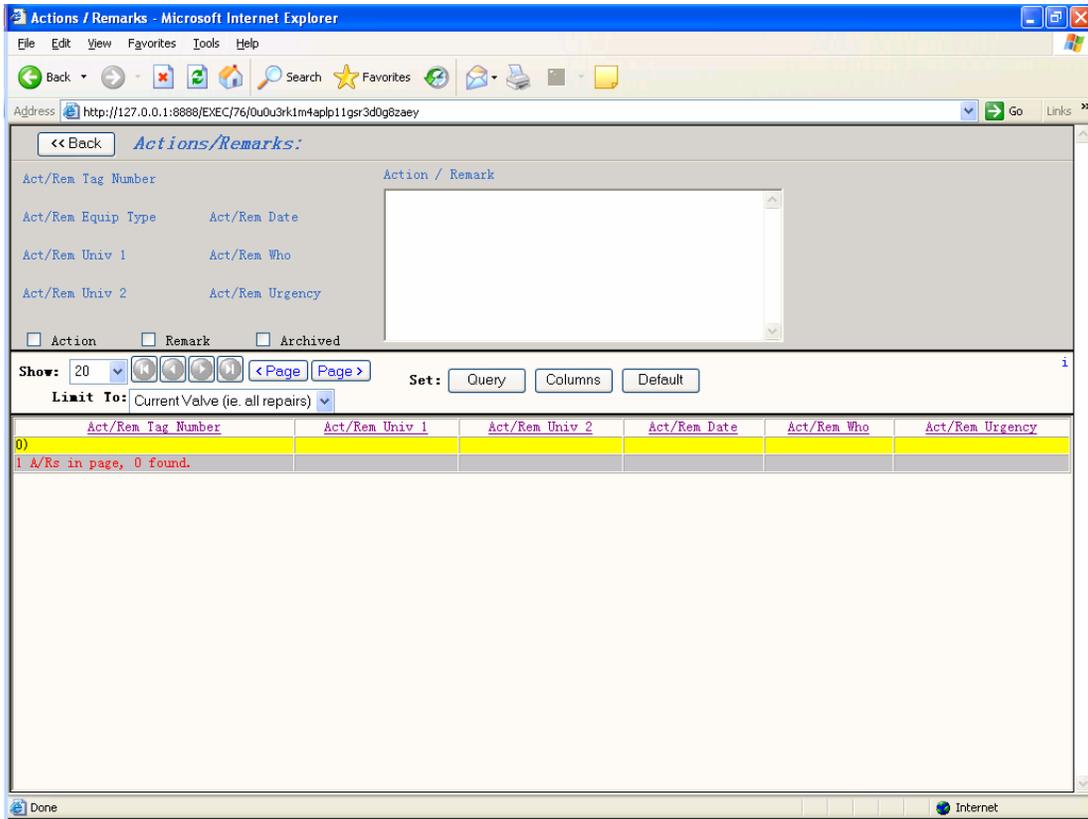


Figure 4-5: Action / Remarks

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Limit To

It is an additional filter which can limit some given actions or remarks information in grid. The option items are Current Valve and All Repairs in Grid. The Attachments for Current Repair is the default.

Remarks:

Always return via the << Back button in the upper left.

4.6 Welds

Click [Welds](#) in View as 2.3

Or, Click Menu: View | More for Repair | Welds for Repair

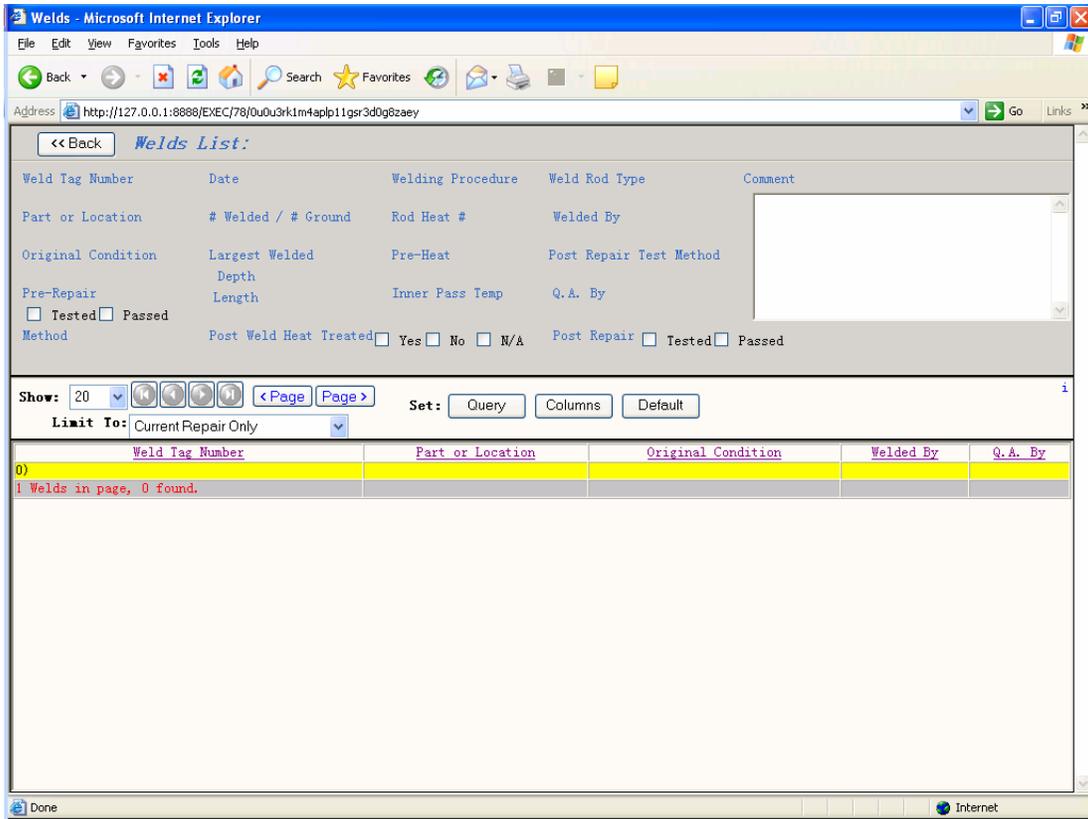


Figure 4-6: Welds

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Limit To

It is an additional filter which can limit some given welds information in grid. The option items are Current Repair Only, All Repairs for Current Valve, and All Repairs in Grid. The Current Repair Only is the default.

Remarks:

Always return via the << Back button in the upper left.

4.7 Positioner

Click [Positioner](#) in View as 2.3

Or, Click Menu: View | More for Repair | Positioner Configuration Data

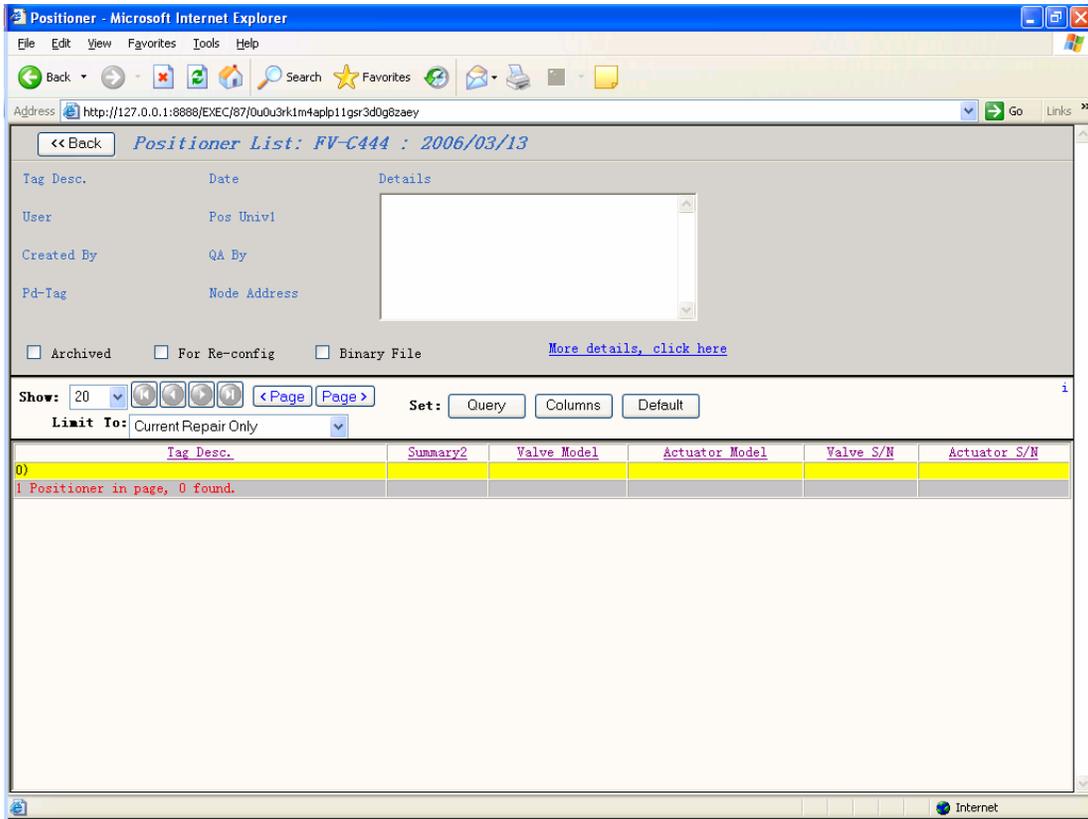


Figure 4-7: Positioner

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Limit To

It is an additional filter which can limit some given positioner information in grid. The option items are Current Repair Only, All Repairs for Current Valve, and All Repairs in Grid. The Current Repair Only is the default.

More Details

Present more detailed description about positioner relevant parameters value including Blocks, Calibration, Actuator, Diagnostic and other options.

Remarks:

Positioner is only valid for Control Valves.
Always return via the << Back button in the upper left.

4.8 Jobs

Click [Jobs](#) in View as 2.3
Or, Click Menu: View | Existing Repair Jobs

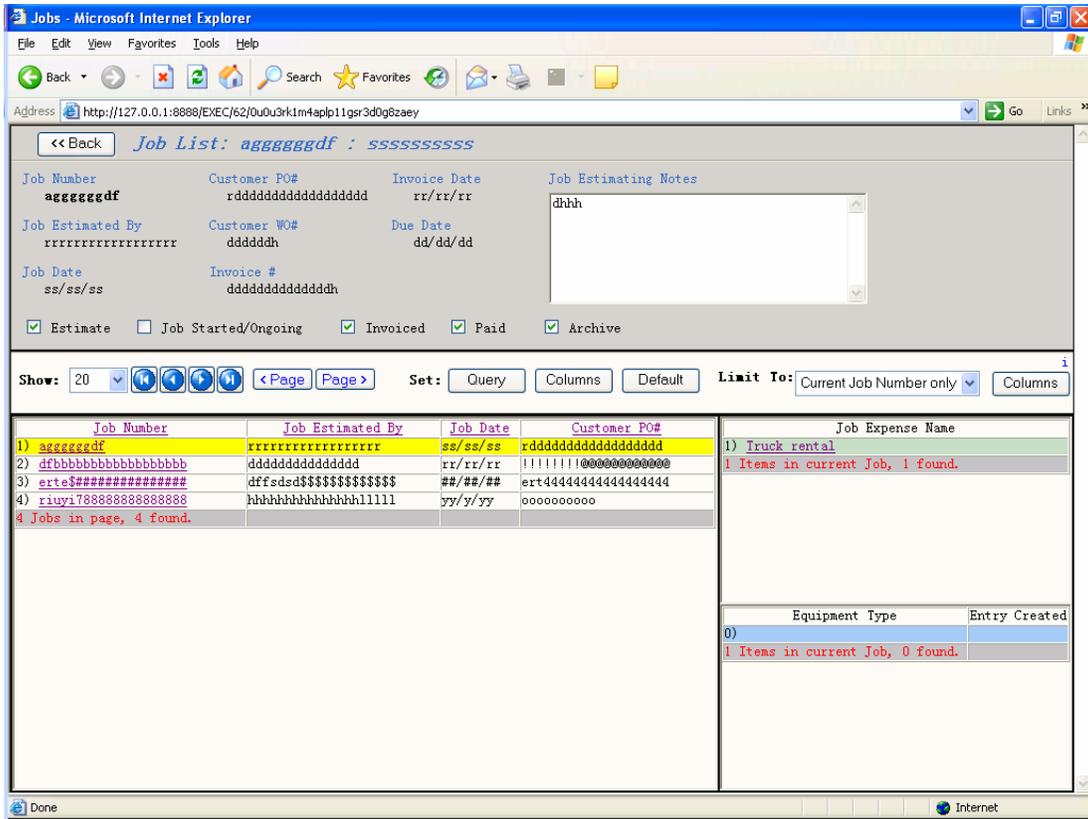


Figure 4-8: Jobs

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Limit To

It is an additional filter which can limit some given jobs information in grid. The option items are Current Job Number Only, and All Jobs Numbers. The Current Job Number Only is the default.

Remarks:

Always return via the << Back button in the upper left.

4.9 Links

Click [Links](#) in View as 2.3

Or, Click Menu: View | Equip Links / Loops

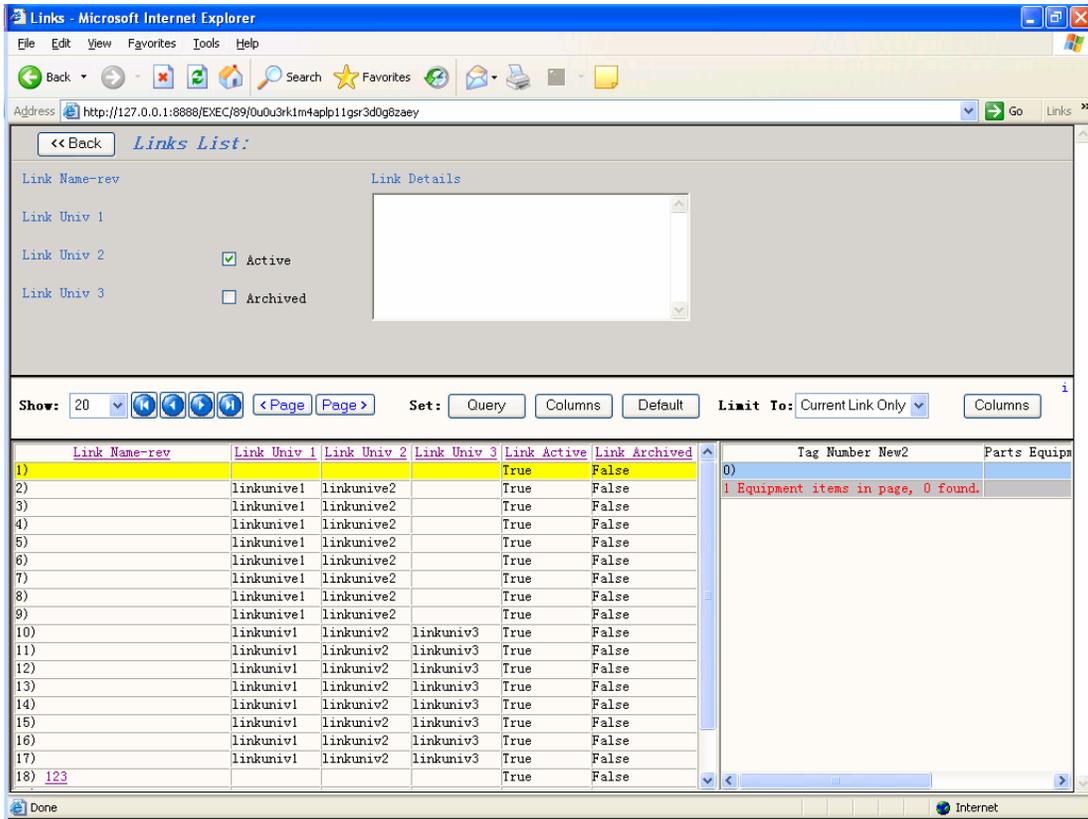


Figure 4-9: Links

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Limit To

It is an additional filter which can limit some given links information in grid. The option items are Current Link Only, and All Links. The Current Link Only is the default.

Remarks:

Always return via the << Back button in the upper left.

4.10 Location

Click [Location](#) in View as 2.3

Or, Click Menu: View | Equip Location

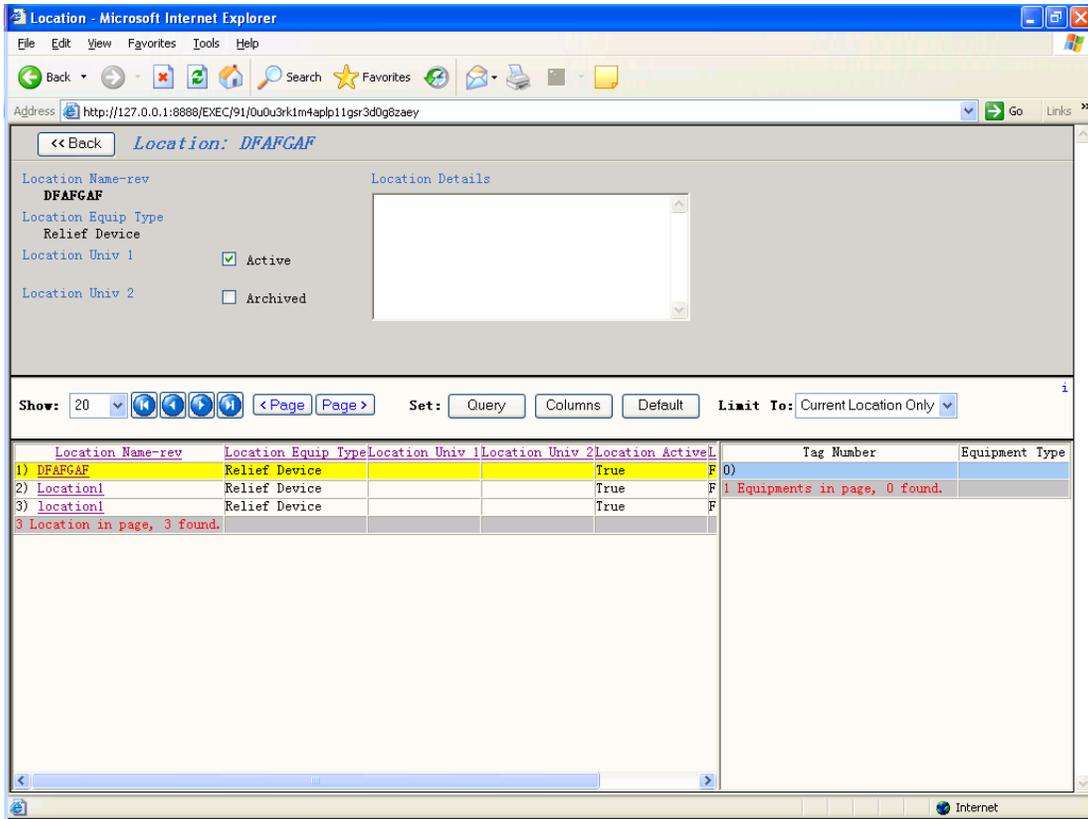


Figure 4-10: Location

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Limit To

It is an additional filter which can limit some given location information in grid. The option items are Current Location Only, and All Locations. The Current Location Only is the default.

Remarks:

Always return via the << Back button in the upper left.

4.11 Notes

Click [Notes](#) in View as 2.3

Or, Click Menu: View | Notes

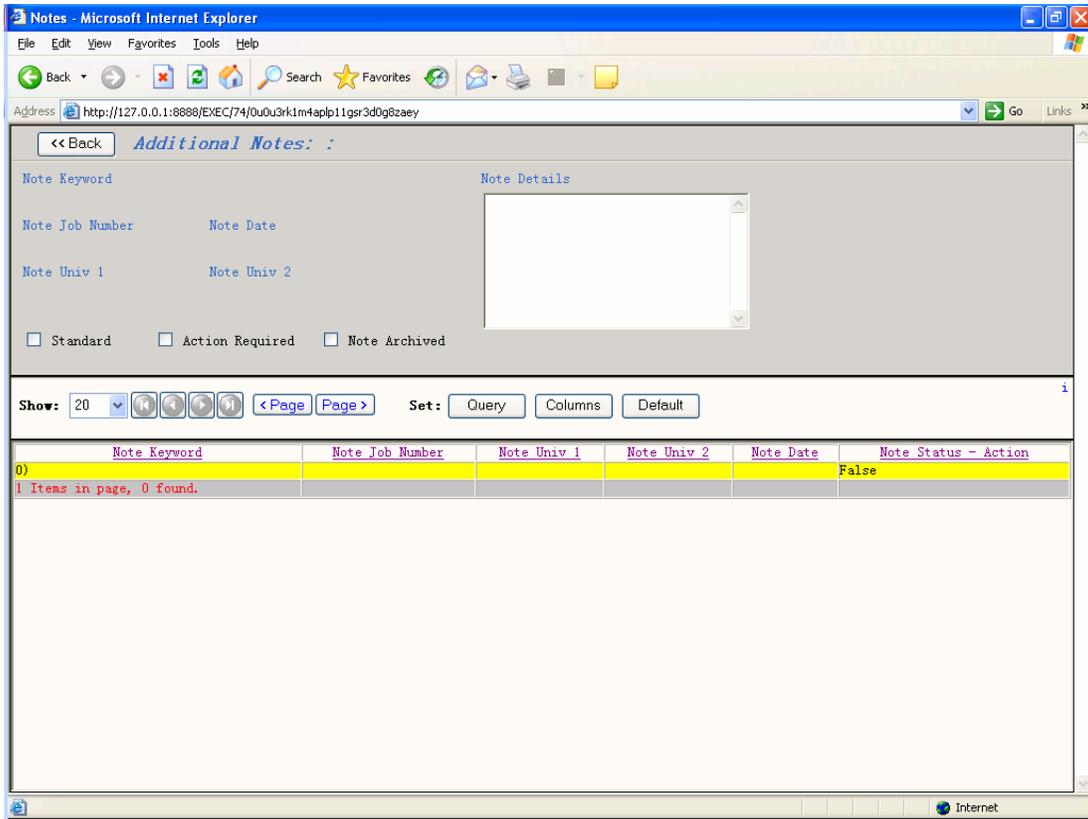


Figure 4-11: Notes

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Remarks:

Always return via the << Back button in the upper left.

4.12 To-Do List

Click [To-Do List](#) in View as 2.3

Or, Click Menu: View | To-Do List

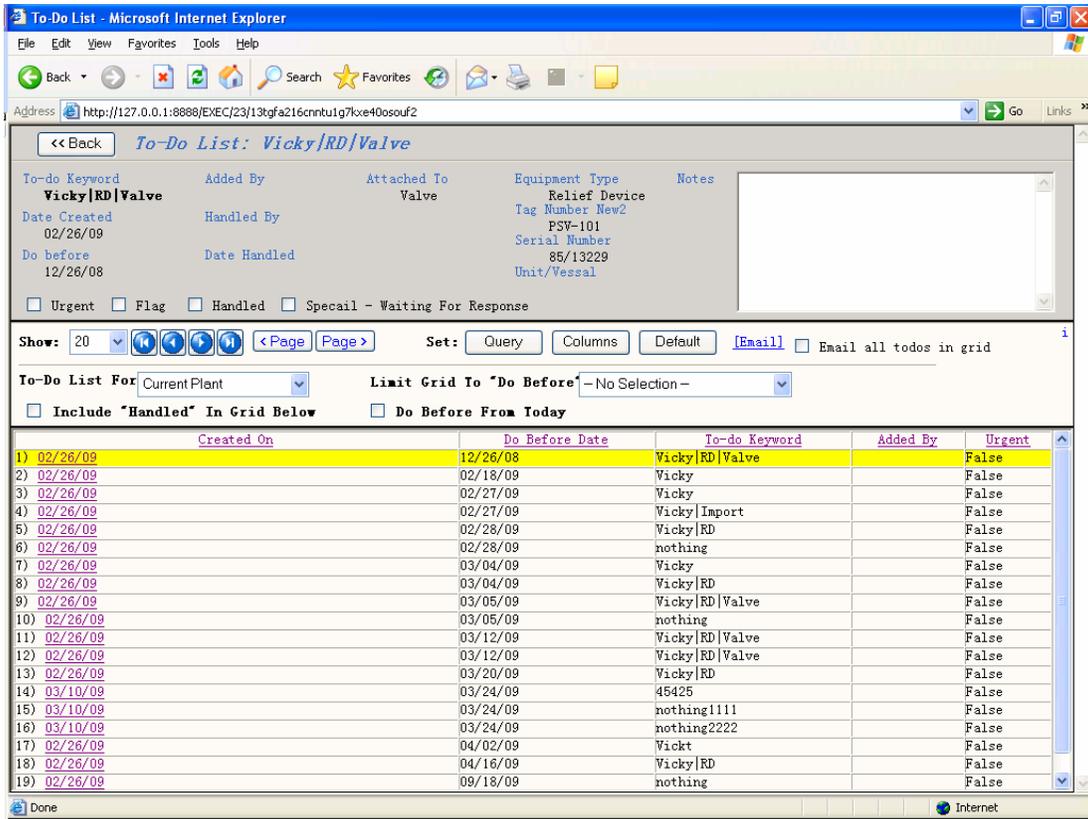


Figure 4-12: To-Do List

Function Description:

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

To-Do List For

It is an additional filter which can limit some given To-Do information in grid. The option items are All, Current Owner, Current Plant Only, Current Valve in Grid, Any Valve in Grid, and Nothing. The Current Plant is the default.

Limit Grid to "Do Before"

It is another filter by time frame. There are some items, such as Today, This Week, This or Next Week, This Month, This or Next Month, This Year. The default is no selection.

Remarks:

Always return via the << Back button in the upper left.

4.13 Coming Due Valves

To quick analysis Coming Due Valves

Click [Coming Due Valves](#) in View as 2.4

Select option in Coming Due In

Repairs coming due in a given time will be shown in the grid.

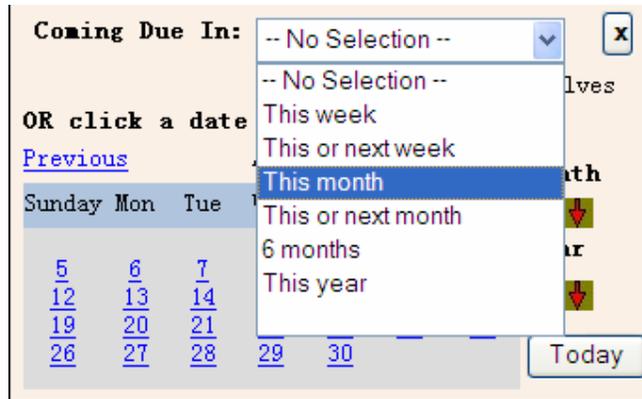


Figure 4-13: Coming Due Valves

Function Description:

The Coming Due Valves is also regarded as a filter. There are double kinds of method to set the filter date, one is selecting such given condition as 'This week', 'This or next week' from combo box, the other is directly clicking the calendar date.

Include Past Due Valves

This option allows the inclusion of valves which are past due or not. If it is unchecked, *only* valves that their Next Maintenance Date are coming due will be presented. Conversely if it is checked all of those valves including past due valves will be presented.

4.14 Parts to Replace, Parts Replaced

Launch Method:

Click [Parts to Replace](#) or [Parts Replaced](#) in View as 2.4

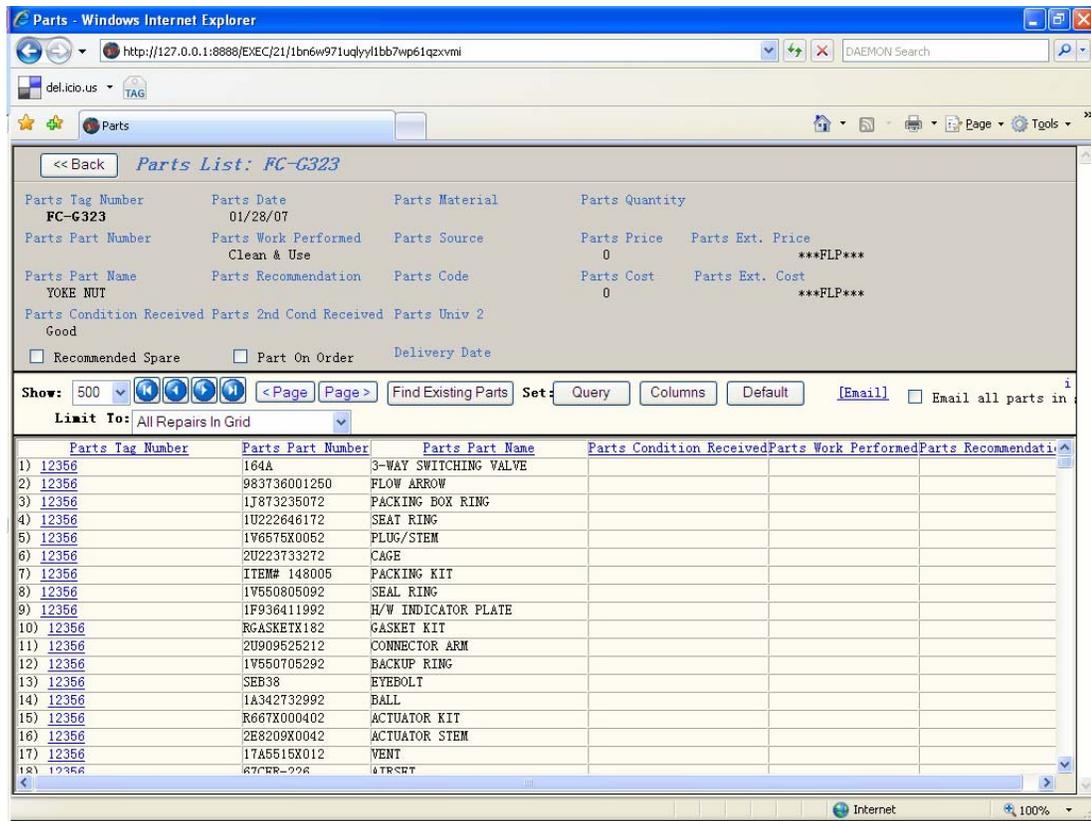


Figure 4-14: Parts to Replace, Parts Replaced

Function Description:

The Parts to Replace and Parts Replaced have the similar function and the user interface most like Parts. Actually their solitary distinction is added the respective filter into Parts. The former filter is to be replaced, yet the later is having been replaced.

Similar Function with Main Form

Query, Columns, Default, Change the display count in grid, Move through in grid, Click one column header to sort by, See also 2.1, 3.1, 3.2

Remarks:

Always return via the << Back button in the upper left.

4.15 Analyze

4.15.1 Analyze and Sum

Launch Method:

Analyze:

Click [Analyze](#) in View as 2.4

Click Menu: Commands | Analyze | General

Sum:

Click [Sum](#) in View as 2.4

Analyze

| Select Field: Bolts Quantity | | |
|------------------------------|-------|----|
| Analysis Breakdown: | Count | % |
| | 332 | 97 |
| 12 | 1 | 0 |
| 12/12 | 1 | 0 |
| 6 | 2 | 0 |
| 8 | 3 | 0 |

Sum

| Select Field: - No Selection - | | |
|--------------------------------|-------|---|
| Sum of Field: | Count | % |

Figure 4-15-1: Analyze and Sum

Function Description:

Both Analyze and Sum are extraordinarily similar. They both present a simple statistic result in grid in terms of the selected field. If the field is not in the display grid it will be added, and then that field is analyzed or summed.

4.15.2 Analyze – Coming Due and Past Due

Launch Method:

Click Valve Calendar Button and select the Menu: Coming Due / Past Due Calendar

Click Menu: Commands | Analyze | Coming Due and Past Due

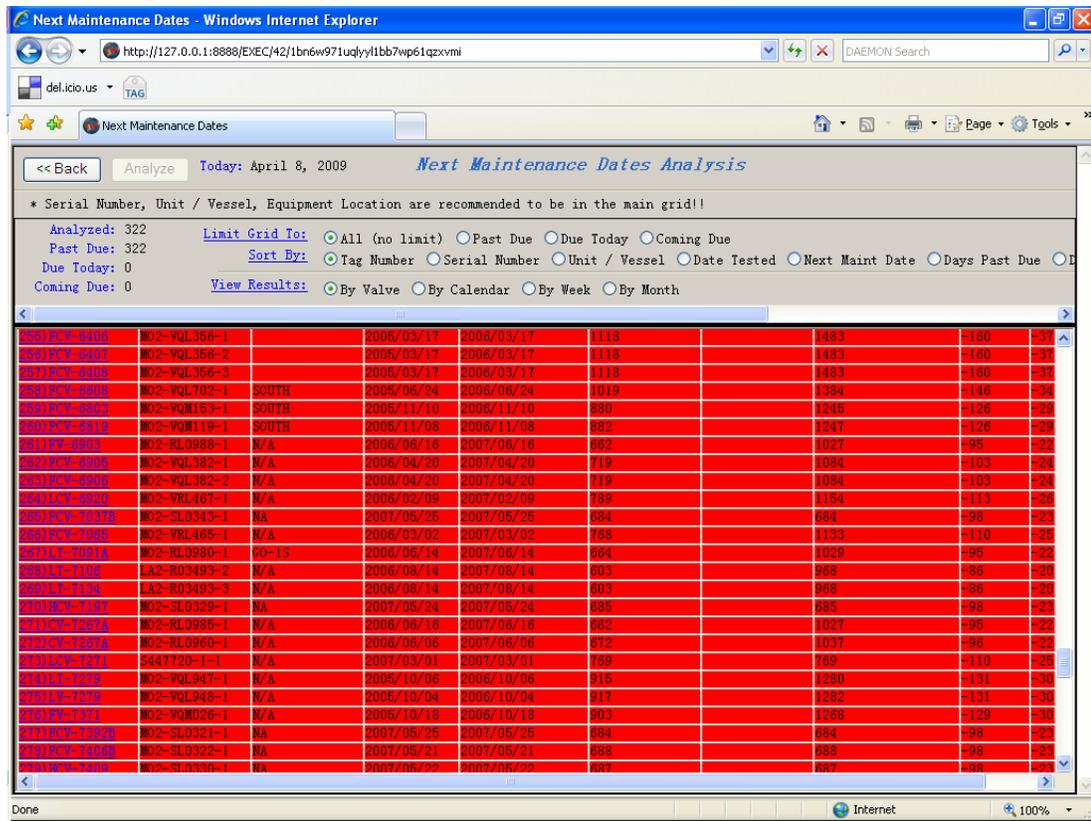


Figure 4-15-2-1: Next Maintenance Date by Valve

Function Description:

The Next Maintenance Data available strong function lists all of the repair satisfied limit option and highlights the Past-Due in red color, additionally, some functions like sorting, filtering and result views are very practical.

Limit Grid To

Set the filter

Sort By

Select a field for sorting by

By Valve

List the valves satisfied with limit option

By Calendar

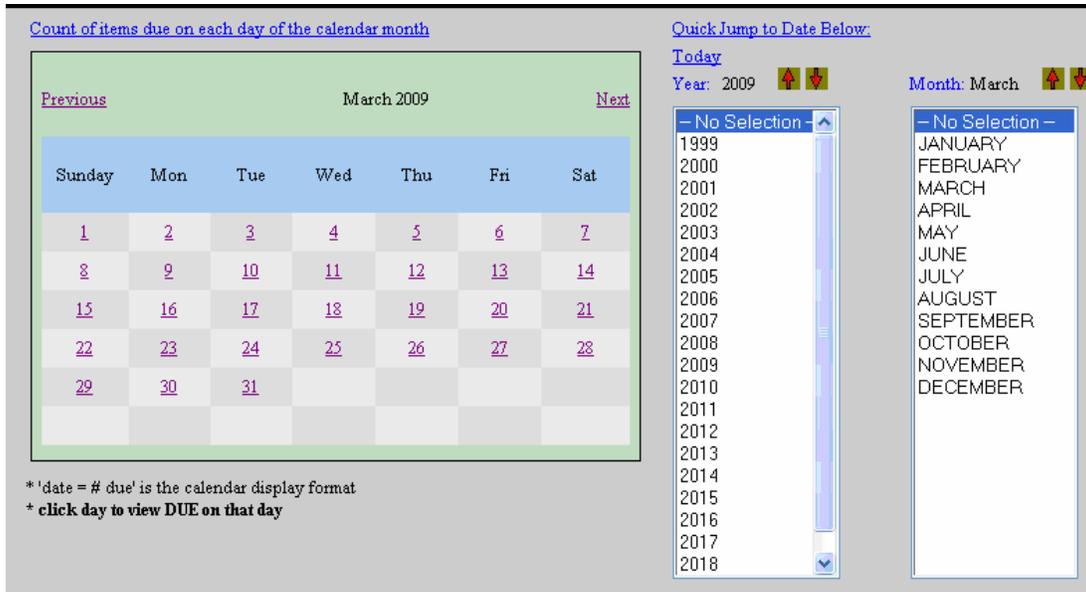


Figure 4-15-2-2: Next Maintenance Date by Calendar

Display a calendar to scroll through. Any date that has a past due or coming due valve is shown with both the date and the count of valves on that day. Clicking it a grid of those valves will be presented.

By Weeks

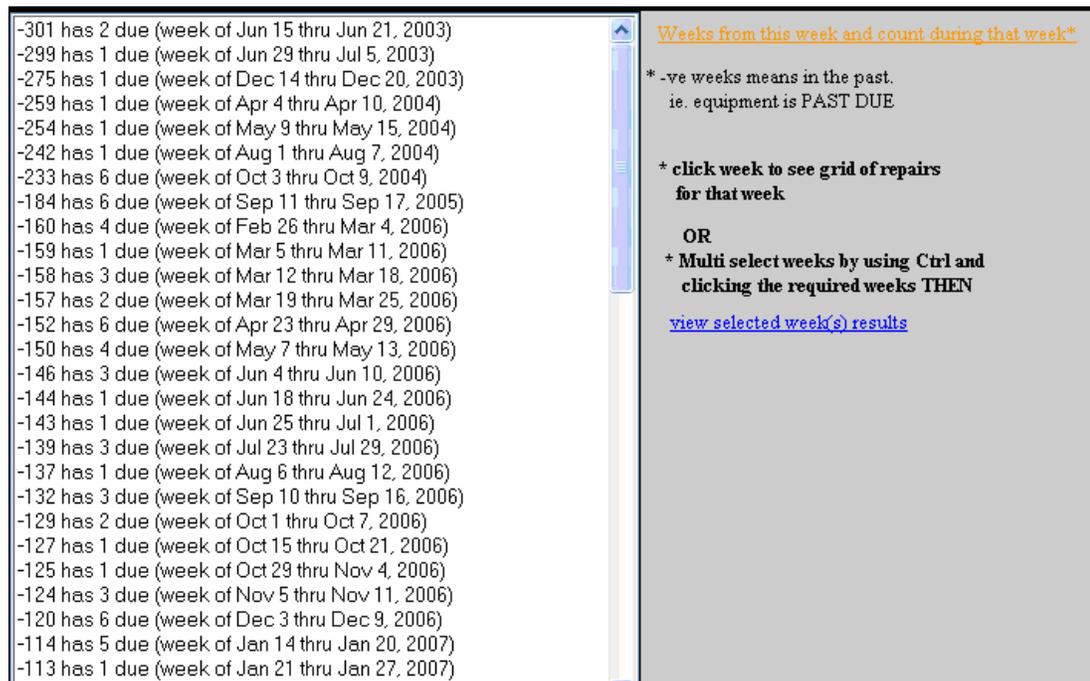


Figure 4-15-2-3: Next Maintenance Date by Week

Display a list of weeks in the past and future and the number of valves in that period, which can be multi-selected or single selected. Moreover a grid of relevant valves in next page will also be presented by clicking [view selected week\(s\) results](#)

By Month

| | |
|---|---|
| -69 has 2 due (month of June 2003) -68 has 1 due (month of July 2003) -63 has 1 due (month of December 2003) -59 has 1 due (month of April 2004) -58 has 1 due (month of May 2004) -55 has 1 due (month of August 2004) -53 has 6 due (month of October 2004) -42 has 6 due (month of September 2005) -36 has 10 due (month of March 2006) -35 has 6 due (month of April 2006) -34 has 4 due (month of May 2006) -33 has 5 due (month of June 2006) -32 has 3 due (month of July 2006) -31 has 1 due (month of August 2006) -30 has 3 due (month of September 2006) -29 has 4 due (month of October 2006) -28 has 3 due (month of November 2006) -27 has 6 due (month of December 2006) -26 has 9 due (month of January 2007) -25 has 12 due (month of February 2007) -24 has 29 due (month of March 2007) -23 has 25 due (month of April 2007) -22 has 56 due (month of May 2007) -21 has 23 due (month of June 2007) -20 has 19 due (month of July 2007) -19 has 14 due (month of August 2007) -18 has 10 due (month of September 2007) | <p><u>Months from this month and count during that month*</u></p> <p>* -ve months means in the past. ie. equipment is PAST DUE</p> <p>* click month to see grid of repairs for that month</p> <p>OR</p> <p>* Multi select months by using Ctrl and clicking the required months THEN view selected month(s) results</p> |
|---|---|

Figure 4-15-2-4: Next Maintenance Date by Month

Display a list of months in the past and future and the number of valves in that period, which can be multi-selected or single selected. Moreover a grid of relevant valves in next page will also be presented by clicking [view selected month\(s\) results](#).

Remarks:

Always return via the << Back button in the upper left.

4.15.3 Analyze – Repair Performed

Launch Method:

Click Valve Calendar Button and select the Menu: Repair Performed Calendar

Click Menu: Commands | Analyze | Repair Performed

Function Description:

The Repair Performed function is similar with Next Maintenance Date, See also 4.15.2 But is only valid for all entries (Most Recent and Historical).

4.15.4 Analyze – Pressure Analysis

Launch Method:

Click Menu: Commands | Analyze | Pressure Analysis

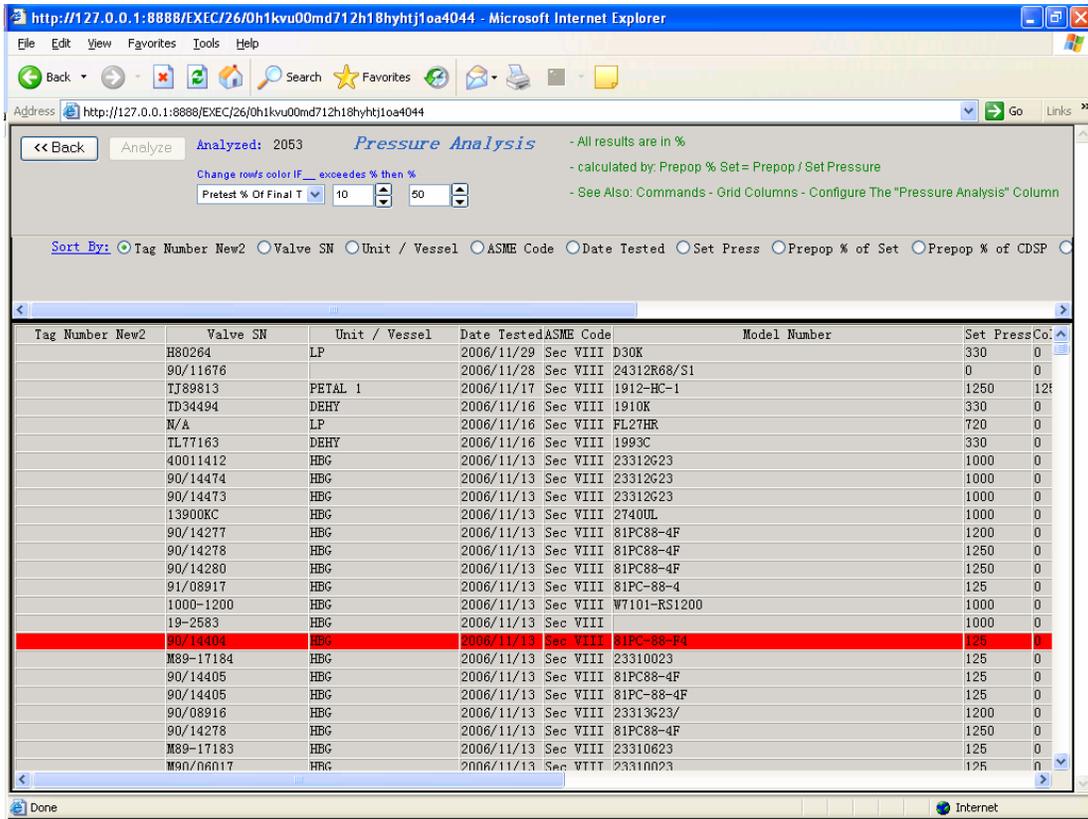


Figure 4-15-4-1: Pressure Analysis for Relief Valves

Function Description:

The Pressure Analysis is only valid for Relief Valve. Present a report for every relief valve and display those valves by different alarm color if they are out of the given limitation.

Change rows color IF __ exceeds x% then y%

Change rows color into *light red* if the field value exceeds the x%, and change it into *red* if the value exceeds y%.

Sort By

Select a field for sorting by

Configure Analysis Column

Click Menu: Commands | Grid Columns | Configure the "Pressure Analysis" Columns

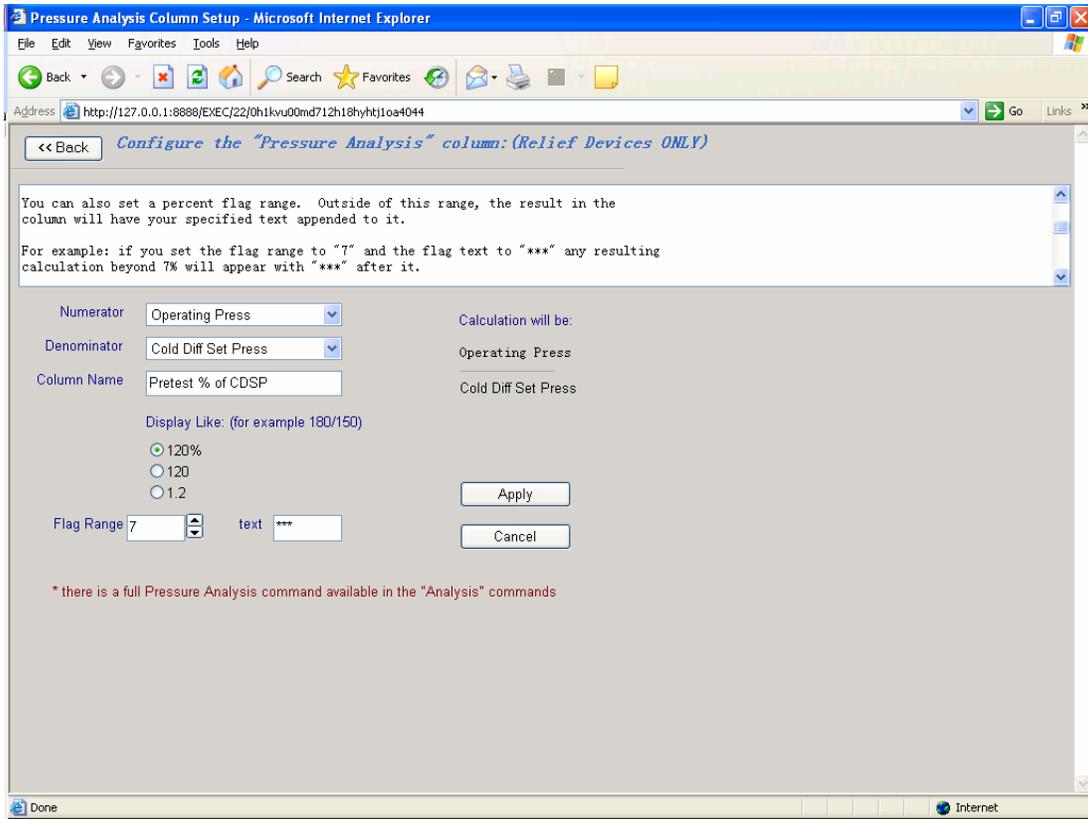


Figure 4-15-4-2: Configure the “Pressure Analysis” Column

Provide strong function to configure the specified calculation formula and display style.

Numerator

Specify a field as numerator

Denominator

Specify a field as denominator

Column Name

Specify the column name

Display Like

Set the display style of calculation result

Flag Range

A percent flag range. The calculation result will be appended the specified text in the column if it is outside of the range. For example, 109% *** .

Calculation

A specimen for specified calculation which is numerator divided Denominator

Apply

Apply setup above and take effect in next time

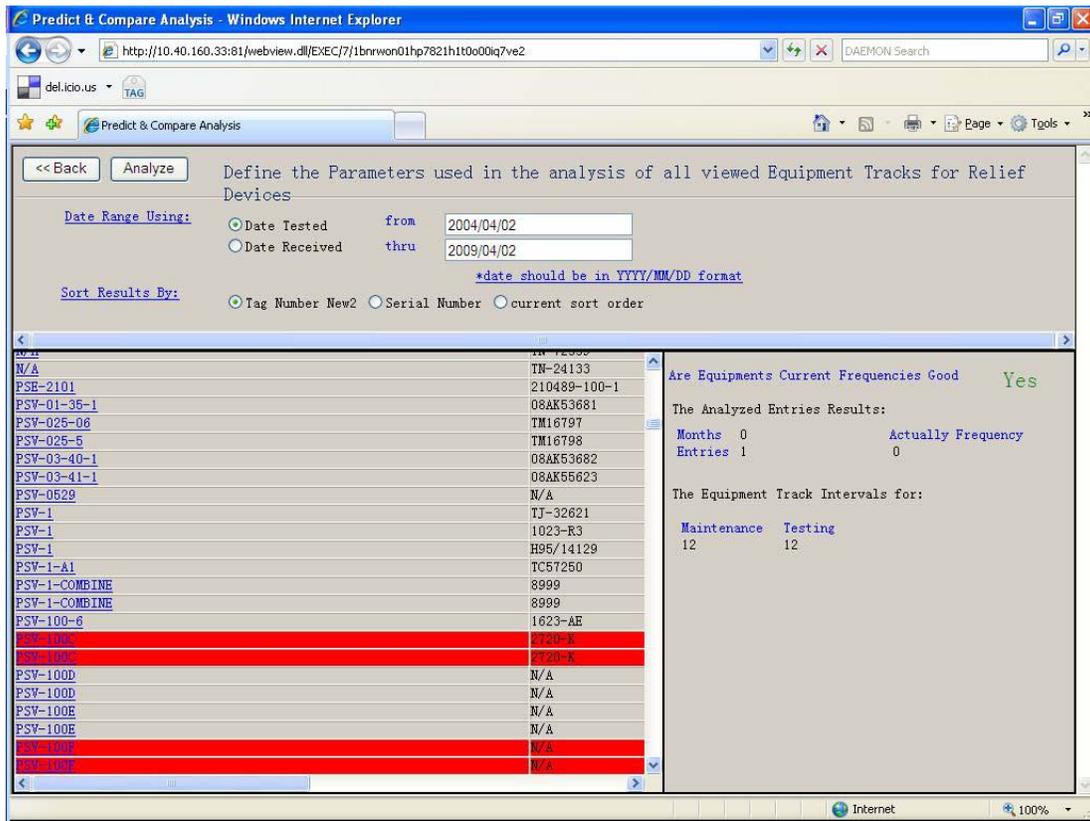
Remarks:

Always return via the << Back button in the upper left.

4.15.5 Analyze – Predict and Compare Maintenance Intervals

Launch Method:

Click Menu: Commands | Analyze | Predict and Compare Maintenance Intervals



Function Description:

The analysis is able to predict and compare maintenance interval by analyzing the previous historical maintenance cycle. According to the analysis result, the rows color in grid left side will be changed into *red* if the next maintenance date exceeds the date which is more than the previous maintenance date adding the calculated maintenance cycle.

Date Range Using:

A filter to limit the valves range for analysis

Sort Results By

Select a field for sorting by

Are Equipments Current Frequencies Good

Click and select one valve row in left grid the more detailed analysis result will be presented in this area.

Remarks:

Always return via the << Back button in the upper left.

4.16 Easy Filter

Launch Method:

Click [Easy Filter](#) in View as 2.4

Easy Filter

Select Field: - No Selection -

Is Equal

Apply Filter Clear Filter

* filter is case sensitive
* Dates in YYYY/MM/DD

Figure 4-16: Easy Filter

Function Description:

The Easy Filter is a simple filter, single filed filter. It differs from Query that can be built using multiple fields and distinct logic between the items of the filter.

4.17 Limit Data

Launch Method:

Click Menu: Commands | Filter / Query / Limit Data | Limit Valve Data in View ...

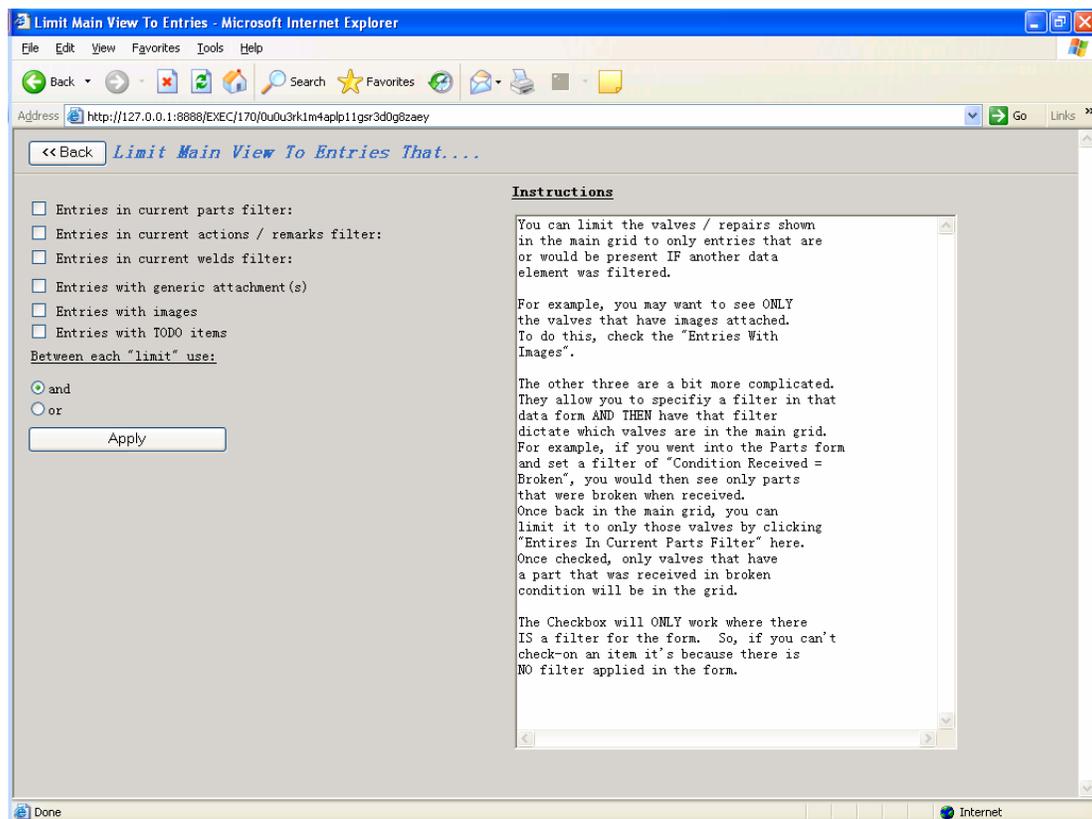


Figure 4-17: Limit Data

Function Description:

The Limit Data provides a function to have the repair grid limited or filtered, based upon one of the other data items. For example, suppose that you want to see only the repairs that had Parts Replaced or an Image

attached or an Action item, or a broken part. Once you have setup any filter required in the other data item.

And, Or

Set the relationship among the checked options

5. User Preference

Launch Method:

Click Menu: User Preference | Change Color of Valve's Text, for Past Due Coming Due Repair, IF...

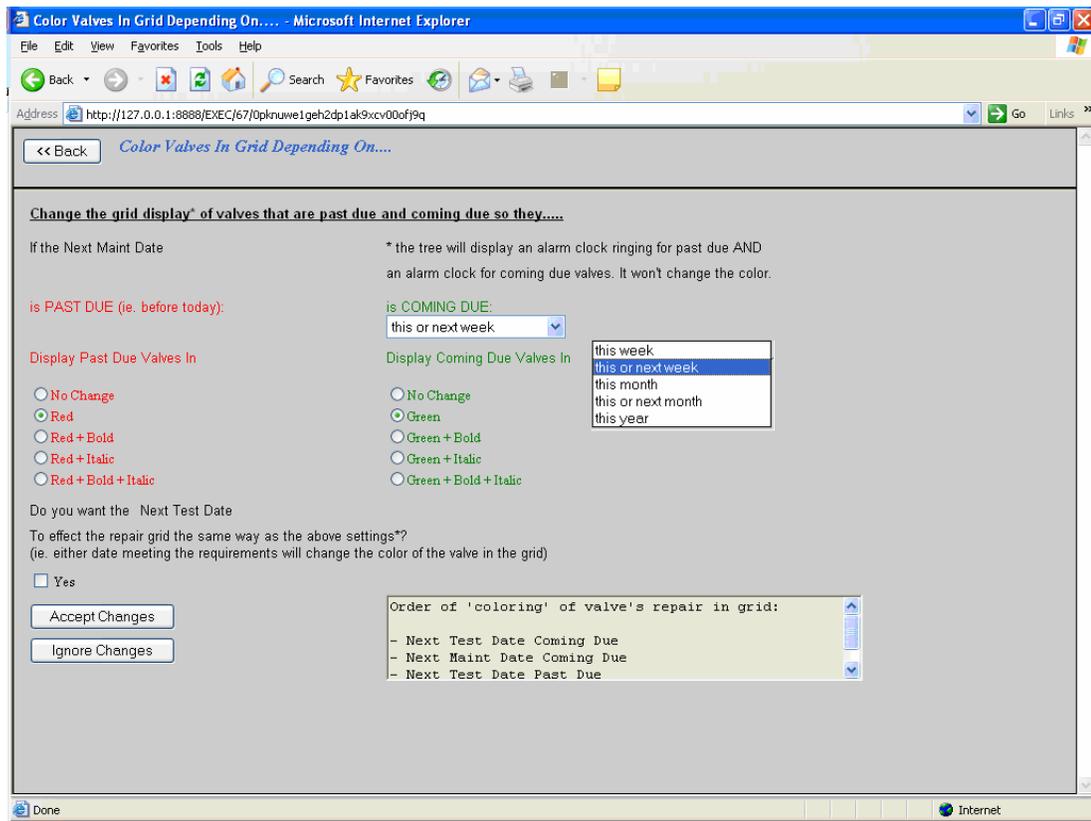


Figure 5-1: User Preference

Function Description:

The User Preference provides some suitable options including color, font, date limit, etc, by which different application requirements and personal preference will be satisfied much more.

Accept Changes

Accept changes and take effected immediately

Ignore Changes

Ignore changes and exit

6. Contact Information

If you have any question, suggestions or find any problem with our program, please do not hesitate in contacting us.

vk-support@dresser.com

valvekeep@dresser.com