

## Part 2 – Equipment Lists

This short guide will show you how to use ProvueDB.Net Desktop Edition to create and maintain equipment lists.

Download table as CSV file

Black cell value = Issued, Blue = Fetched, Red = New

Project	Plant	Name	Type	Title	EQ Rev	Flowrate (m3/h)	Diff Head (m)	Design (barg)
PROJECT 1	PLANT 2	P1	PUMP					
PROJECT 1	PLANT 2	P101	PUMP					
PROJECT 1	PLANT 2	P102	PUMP					
PROJECT 1	PLANT 2	P103	PUMP					
PROJECT 1	PLANT 2	P108	PUMP				12.7485	
PROJECT 1	PLANT 2	P109	PUMP					
PROJECT 1	PLANT 2	P110	PUMP				-10193.7	
PROJECT 1	PLANT 2	P111	PUMP	STAGE 1 KEROSENE F		5.0	10.0	
PROJECT 1	PLANT 2	P112	PUMP	STAGE 1 HEATING LO		5.5	7.0	
PROJECT 1	PLANT 2	P113	PUMP	STAGE 2 REACTOR PL		3.2	12.0	
PROJECT 1	PLANT 2	P114	PUMP	STAGE 2 DISTILLATE F		2.0	13.0	
PROJECT 1	PLANT 2	xx	PUMP					
PROJECT 1	PLANT 2		PUMP					

### Starting ProvueDB.Net

- Click **Start > All Programs > PEL > ProvueDB > ProvueDB.Net Desktop Edition**.

The first thing we need to do is select a database to store the equipment lists. We will use the database we created in the Part 1 60 second guide.

- In the top pane, select **TutorialDB**, enter your User Name and Password and click **Equipment Lists**.

We will now create a specification file. This file remembers all data items we want to retrieve from the database and how we want it listed – the column headers, units of dimension, etc. In fact everything except where the data is to be retrieved from.

- Select **<Create new>** in the **Open** list and then enter a name for the specification file (such as pumps followed by your user id) and click **OK**.

We will restrict this equipment list to pumps.

- Scroll down the list of equipment types and click **PUMP**.

The pane to the right lists the valid datasheets for a pump. We are going to select fields from the Process and Mechanical datasheets. The fields go blue when they have been selected.

- In the list of datasheets, click **Process** to show the Pump Process datasheet in the far right pane and click the **Flowrate** field on line 18 in column 1 and the **Differential Head Across The Pump** on line 46, column 1.

- In the list of datasheets, click **Mechanical** and click the fields **Design Pressure** and **Design Temperature** on line 12.

The last thing we want to do is to add meaningful names for the columns.

- Scroll down to the **Selected Fields** list and add column names as follows:

#### Selected fields

Equipment	Datasheet	Field	Units	Column Name
PUMP	Process	<a href="#">VOLFLOW1</a>	m3/h	Flowrate
PUMP	Process	<a href="#">HEADIFFACROSSPUMP1</a>	m	Diff Head
PUMP	Mechanical	<a href="#">DESPRESS</a>	barg	Design Pressure
PUMP	Mechanical	<a href="#">DESTEMP</a>	C	Design Temp

That completes the specification so we now need to select the project(s) and plant(s) to supply the data. We don't have many options with this database but with a working database there could be many to choose from.

8. Scroll down to the **Selected Projects/Plants** list and select the **PROJECT 1 / PLANT 2** checkbox and click **Show Results**.

ProvueDB retrieves the selected data fields from all the pumps in PROJECT1 / PLANT 2 and shows them in a spreadsheet.

We will now use Equipment Lists to add some more pumps to the database.

9. Below the last row of the table, enter a new pump, **P110** (or the next available number). Enter the data as shown below and then click **Save Changes** to add the data to the database.

<i>Pump</i>	<i>Title</i>	<i>Flowrate</i>	<i>Diff Head</i>	<i>Design Pressure</i>	<i>Design Temp</i>
P111	STAGE 1 KEROSENE RECIRCULATION PUMP	5.0	10.0	3.0	20.0

The values are initially in red as you add them, but change to blue when you click **Save Changes**.

10. Add four more pumps (with the next sequentially available numbers).

<i>Pump</i>	<i>Title</i>	<i>Flowrate</i>	<i>Diff Head</i>	<i>Design Pressure</i>	<i>Design Temp</i>
P112	STAGE 1 HEATING LOOP PUMP	5.5	7.0	2.5	22.0
P113	STAGE 2 REACTOR PUMP	3.2	12.0	2.0	37.0
P114	STAGE 2 DISTILLATE PUMP	2.0	13.0	2.0	37.0
P115	STAGE 2 EXTRACTION VESSEL PUMP	4.2	9.0	2.5	15.0

11. Click **Back to Specification** to close the spreadsheet and return to the Equipment List window.
12. Click the **Logout** button, select the same database, enter your password again and click **Datasheets** to open the Datasheets view.
13. Expand the tree-view to check that the pumps have been added successfully. Expand any of the pumps to see that a process and a mechanical datasheet have been added.
14. Click the **Tools** tab and click **Equipment Lists** to open in a new browser window.
15. In the Open list click your Pumps specification and click **Load**. Then click **Show Results** to get back to the spreadsheet view.

Now let's export the data as a CSV list and open in Microsoft Excel.

16. In the top left of the spreadsheet, click **Download table as CSV file**. Select all the text and then copy and paste into a text editor such as Notepad. Click **Save** and browse as required to save the file to your desktop as **MyPumps.csv**. Then click **Open** to open in Microsoft Excel.

This program is developed, maintained and supported by PEL Support Services, ABB. We run a Hotline telephone and email service to answer any queries about the PEL products. You can contact us:

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