

# User Manual

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## *KSB Product Designer*

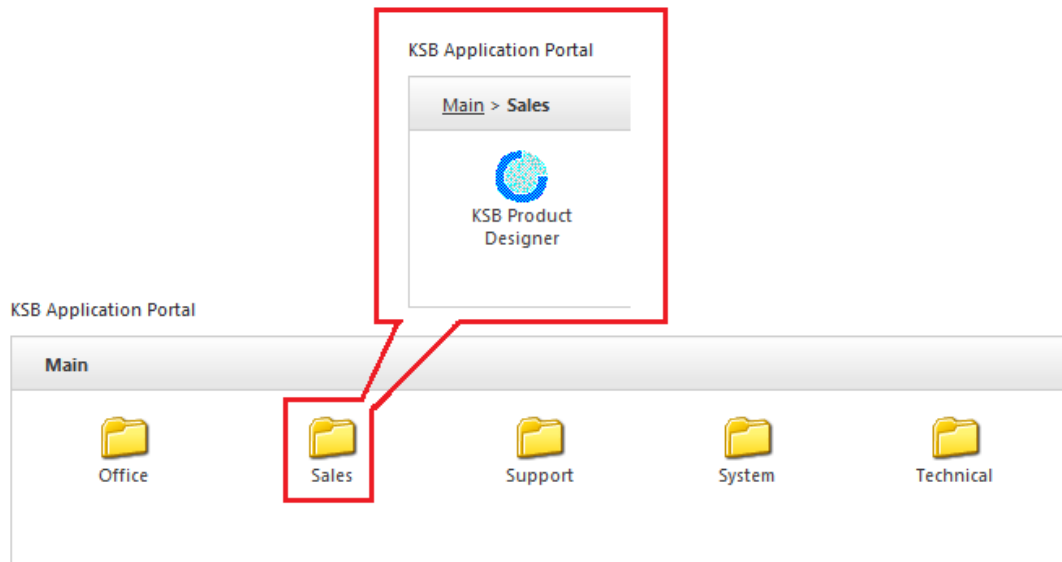
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## 1 Start 'KSB Product designer'.

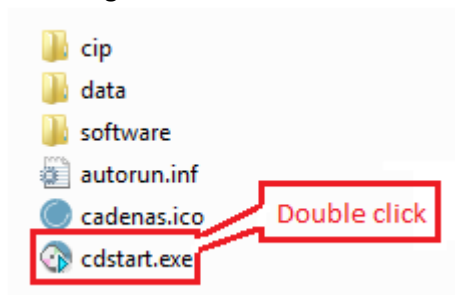
### 1.1 From CITRIX

- Open 'CITRIX' farm.
- 'KSB Product designer' is available in 'Sales' folder. Double click on the icon to open.
- Read and Accept the License agreement\*.



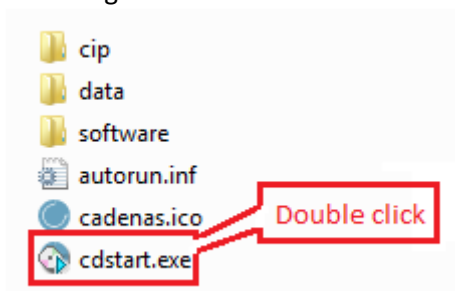
### 1.2 From Offline CD

- Insert 'CADENAS Offline CD/DVD' in 'CD drive'.
- Generally 'KSB Product designer' starts automatically.
- If not, then go to 'CD/DVD drive'. Double click on 'cdstart.exe'
- Read and Accept the License agreement\*.



### 1.3 From 'DATA' folder

- In the provided folder; double click on 'cdstart.exe'
- Read and Accept the License agreement\*.



\*Usage of the software is allowed only after accepting the license agreement.

## 2 User Interface

After first step you will have a below window on your screen.



### 2.1 Select catalogue language.

You can select the desired language from top right corner.



### 2.2 Open catalogue.

Click on 'PARTdataManager' from User interface.

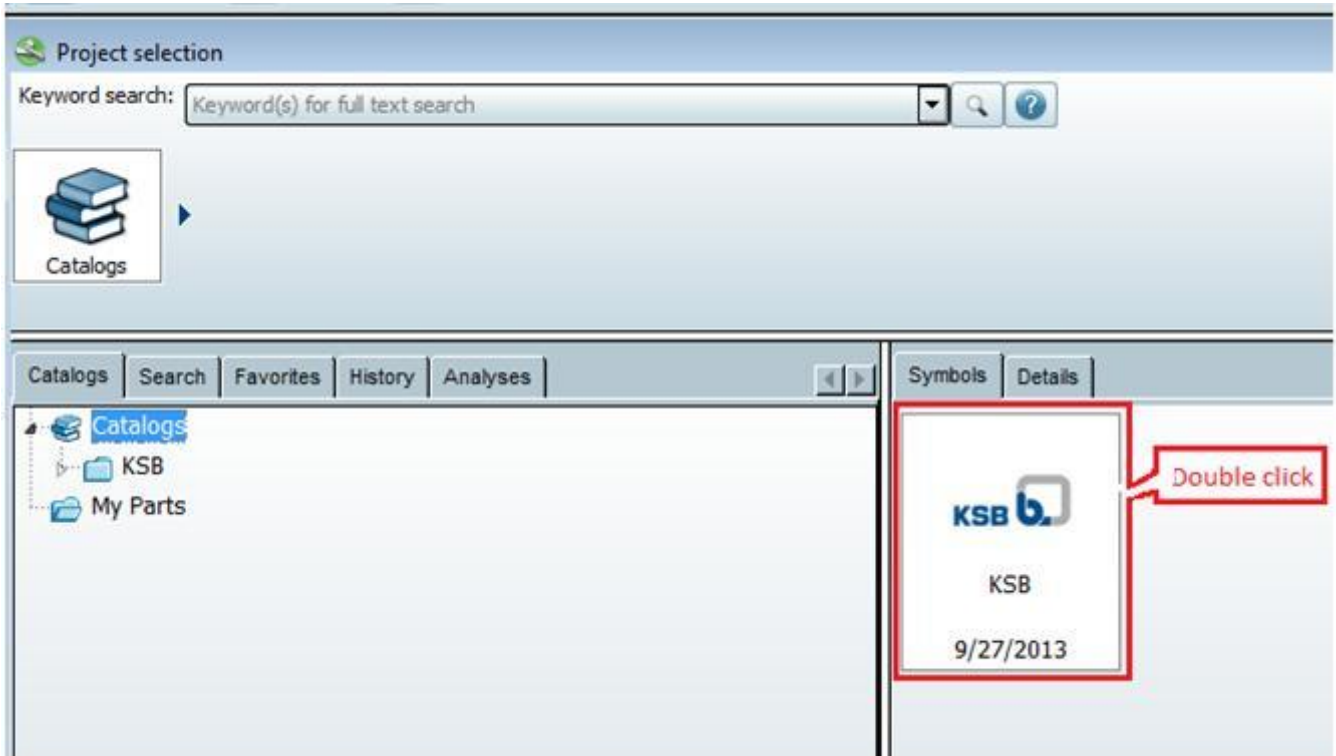


### 3 Product Selection

After clicking on 'PARTdataManager', 'Project selection' window will appear on your screen.

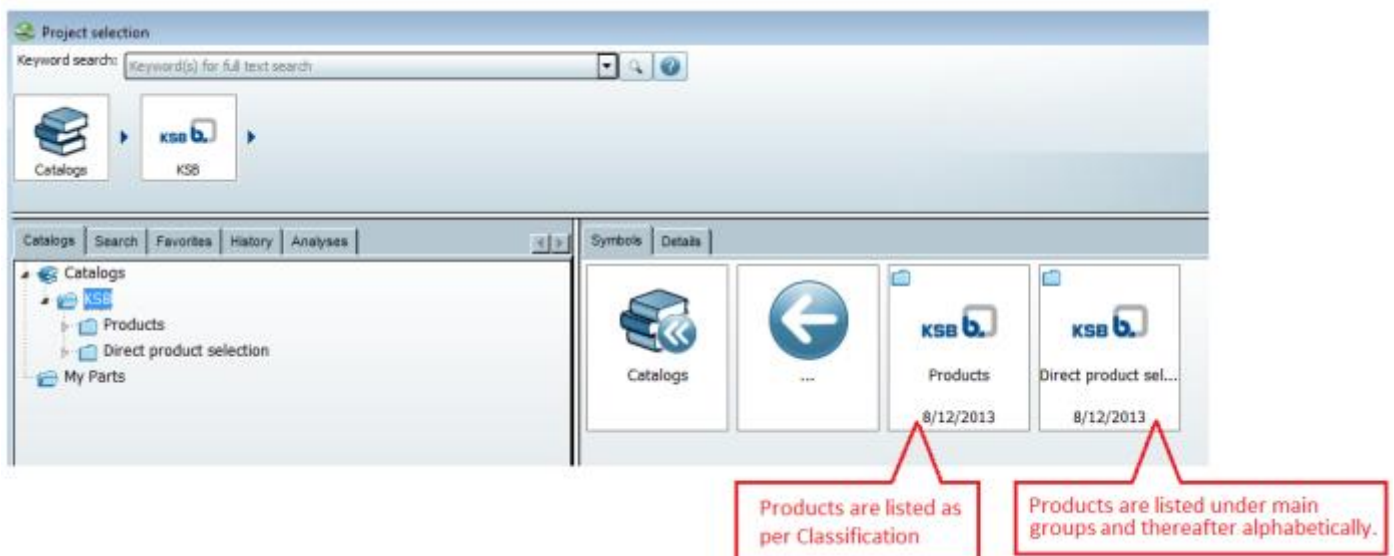
#### 3.1 Browse catalogue.

Double click on 'KSB' to open the catalogue.



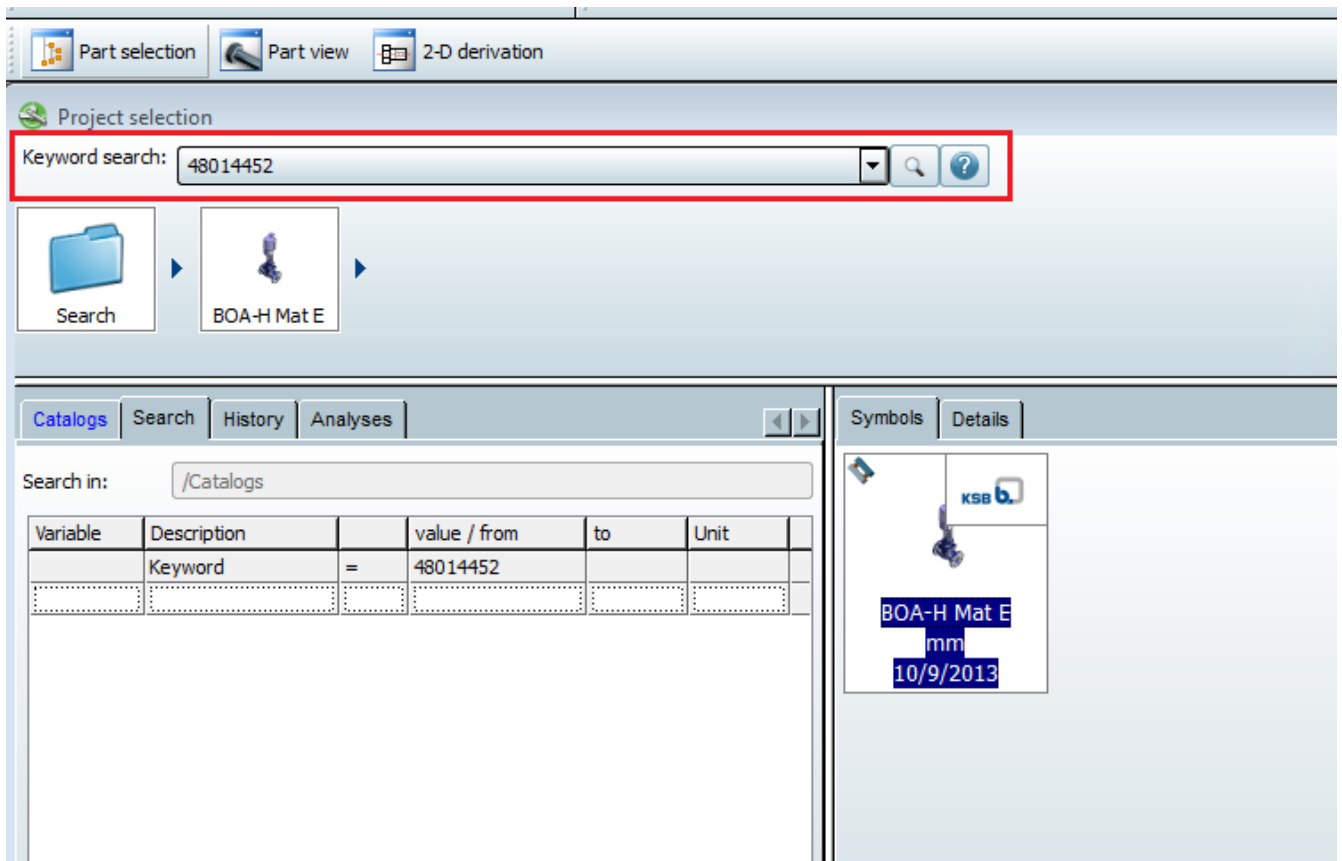
Here all products are listed in two categories.

- **Products:** Products are listed as per category. Required product can be selected from the categories.
- **Direct product selection:** All products are listed under main groups namely Automation, Pump and pump systems, valves, etc. and thereafter alphabetically. You can directly select product from the list.



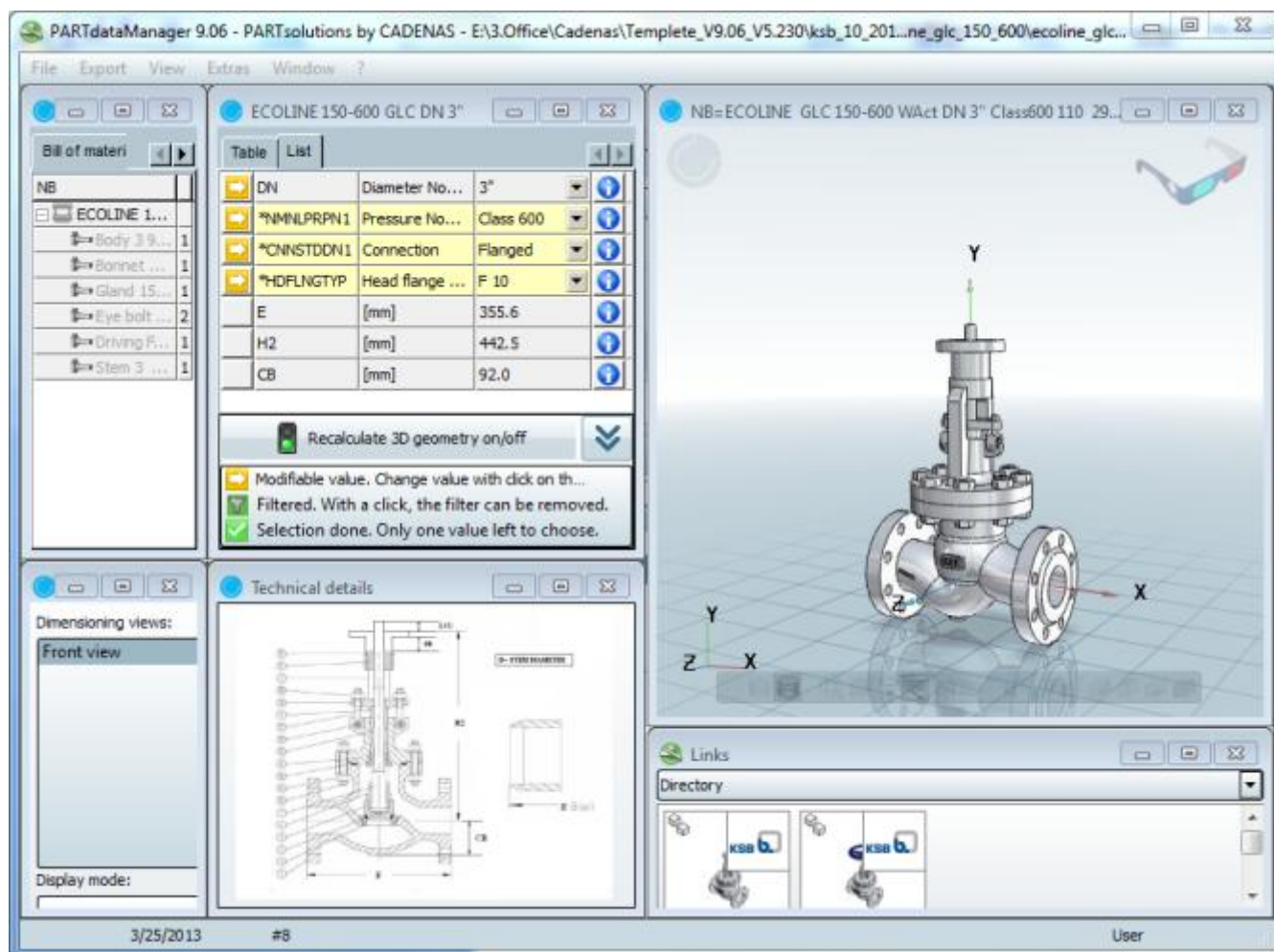
### 3.2 Search product

- Products can be searched directly in the catalogue by name or by Indent number.
- In the search field you can insert indent number of the product or enter name of the product and search in the catalogue.



## 4 CAD Model generation

After selecting required product; below window will appear on your screen.



## 4.1 Selection table view

Selection table is presented in two formats.

### 4.1.1 'Table' view

On upper left corner of selection table, if clicked on 'Table' tab; below view will appear.

Fixed columns			Selectable columns				
Table	List						
	CMPsize	SIZEDN1	SIZEDN2	* PRDCPT	* CNNSTDDN1	* NMNLPRPN1	* CNNSTDDN2
	Componen...	Nominal di...	Nominal di...	Design co...	Flange design i...	Nominal pressu...	Flange design ...
1	080-210	125	80	DD35	ASME B16.5	Class 150	ASME B16.5
2	080-270	125	80	DD35	ASME B16.5	Class 150	ASME B16.5
3	080-370	125	80	DD35	ASME B16.5	Class 150	ASME B16.5
4	100-250	150	100	DD35	ASME B16.5	Class 150	ASME B16.5
5	100-310	150	100	DD35	ASME B16.5	Class 150	ASME B16.5
6	100-375	150	100	DD35	ASME B16.5	Class 150	ASME B16.5
7	125-230	200	125	DD35	ASME B16.5	Class 150	ASME B16.5
8	125-290	200	125	DD35	ASME B16.5	Class 150	ASME B16.5
9	125-365	200	125	DD35	ASME B16.5	Class 150	ASME B16.5
10	125-500	200	125	DD35	ASME B16.5	Class 150	ASME B16.5

CMPsize	SIZEDN1	SIZEDN2
Componen...	Nominal di...	Nominal di...
080-210	125	80
080-270	125	80
080-370	125	80

- Values in 'Gray' columns indicate; values are fixed and no selection option available.

* PRDCPT	* CNNSTDDN1	* NMNLPRPN1
Design co...	Flange design i...	Nominal pressu..
DD35	ASME B16.5	Class 150
DD35	ASME B16.5	Class 150
DD35	ASME B16.5	Class 150
DD35	ASME B16.5	Class 150

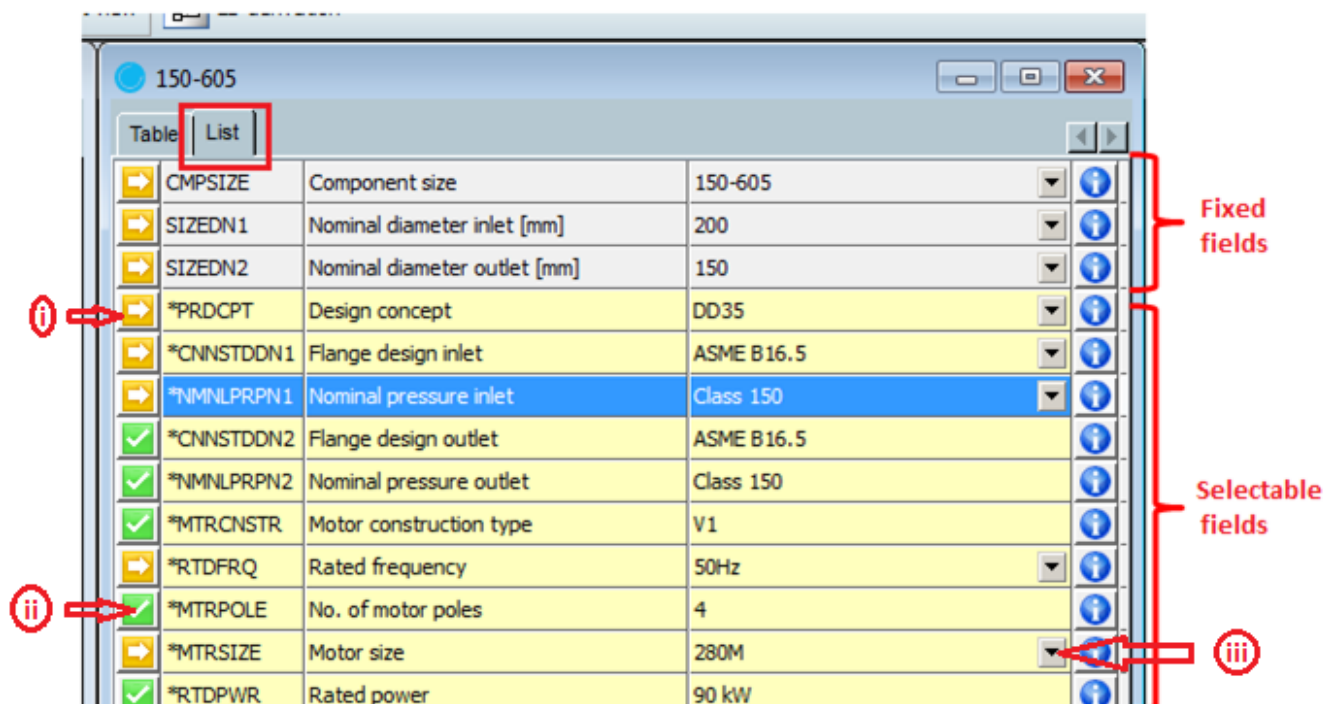
- Values in 'Yellow' columns indicate; fields in this columns may have more than one value. Different selection options can be selected by clicking on particular field.

\* 'Recalculate 3D geometry on/off' button not available in this view



### 4.1.2 'List' view


On upper left corner of selection table, if clicked on 'List' tab; below view will appear.






CMPSIZE	Component size	150-605
SIZEDN1	Nominal diameter inlet [mm]	200
SIZEDN2	Nominal diameter outlet [mm]	150





- Values in 'Gray' fields indicate; values are fixed and no selection option available.

*PRDCPT	Design concept	DD35
*CNNSTDDN1	Flange design inlet	ASME B 16.5
*NMNLPRPN1	Nominal pressure inlet	Class 150
*CNNSTDDN2	Flange design outlet	ASME B 16.5

- Values in 'Yellow' fields indicate; these fields may have more than one value. Different selection options can be selected by clicking on drop down arrow .

- Symbol  indicates; more than one selection possible.
- Symbol  indicates; selection already done. No more values available for selection.
- If more than one value available in the particular field, different values can be selected by clicking on drop down button .

## 4.2 Recalculate 3D geometry on/off

- In list view of selection table; 'Recalculate 3D geometry on/off'  button is provided at the bottom of table.
- If the color of button is 'Green'  it will calculate the part after each change in selection option.
- Click on this button; it will change to 'Red'  and recalculation after each change in selection will be disabled.
- After completing configuration, click on the same button; it will get change to 'Green'  and 3D model for selected configuration will be generated.

**\*Currently this option is available only in 'List' view.**

## 5 Dimensions

After generating model for required configuration dimensions can be measured in 2D or 3D view:

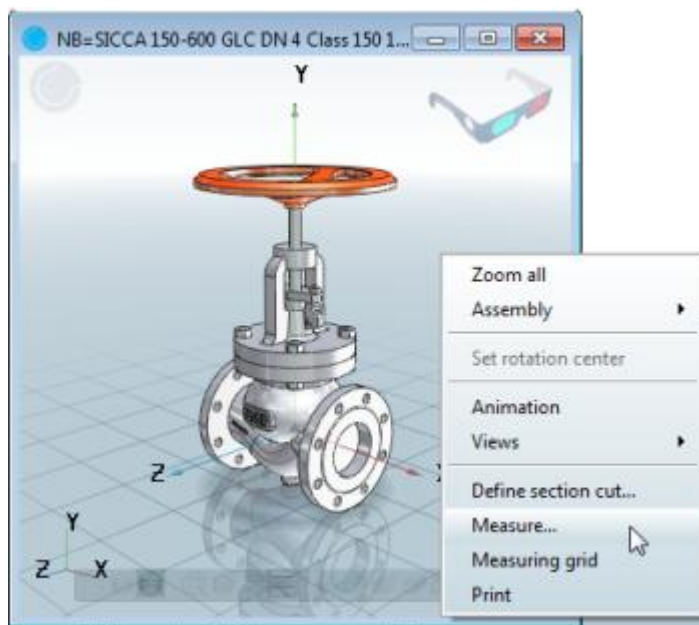
### 5.1 Measure dimensions in 3D view

In 3D view; dimensions can be measured in different ways.

- i. Face to face distance.
- ii. Face to centre axis of cylinder or cone.
- iii. Distance between axes of two cylinders or cones.

#### For 'Measurement' window

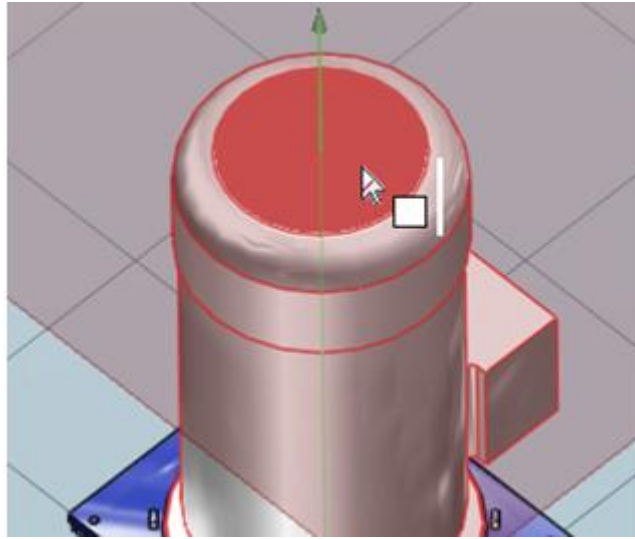
- Mouse button right click in the 3D view.
- Select 'Measure'.



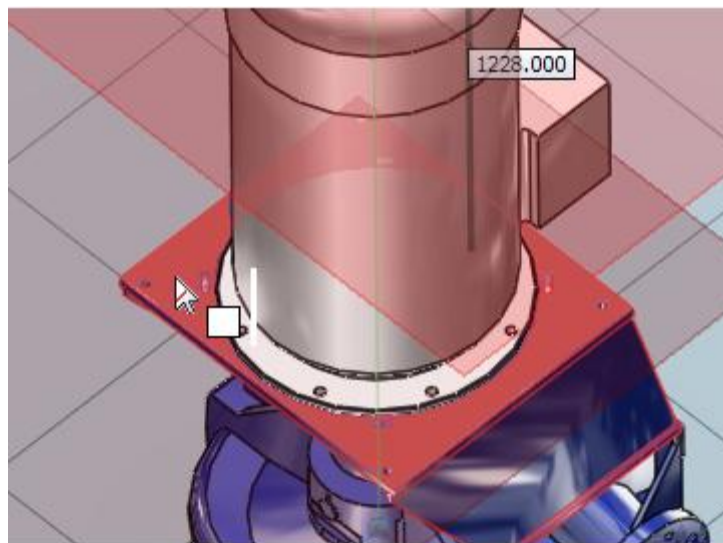
Measurement window will appear on your screen.

**5.1.1 To measure distance between two faces:**

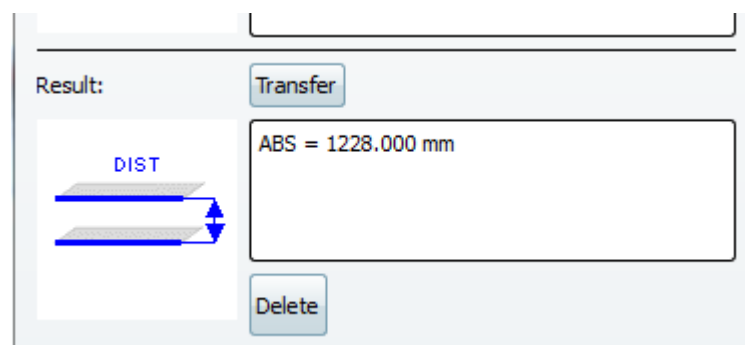
- i. Select the first face (As shown bellow) from which distance has to be measured.





- ii. Select the target face until which distance has to be measured.

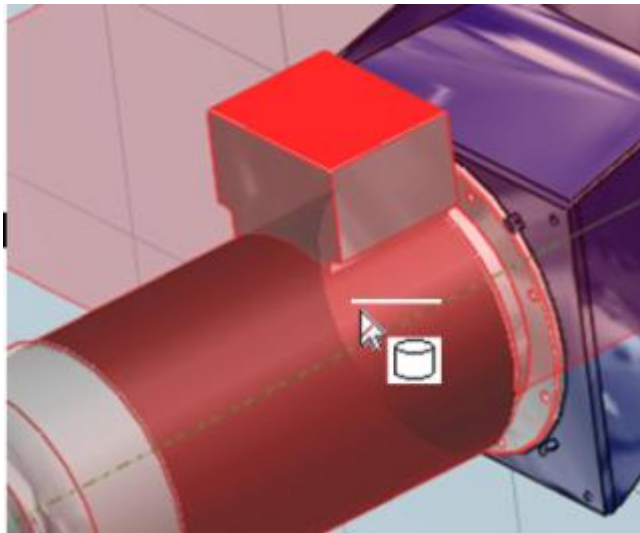


- iii. In 'Measurement' window you distance will appear as below.

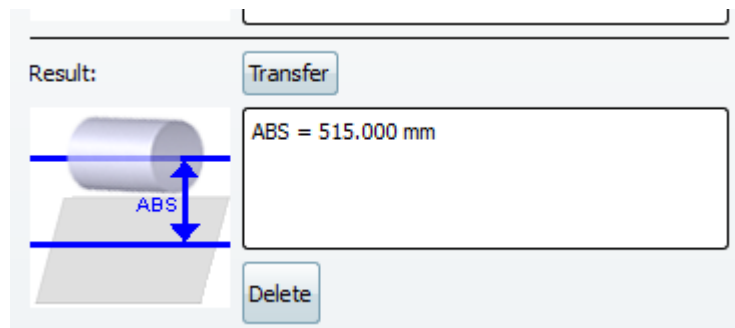


**5.1.2 To measure distance between face and centre axis of cylinder or cone:**

- i. Select the first face (As described in 5.1.1(i)) from which distance has to be measured.
- ii. Select the face of cylinder  or cone  from whose centre axis distance has to be measured.



- iii. In 'Measurement' window you distance will appear as below.


**5.1.3 To measure distance between axes of two cylinders or cones:**

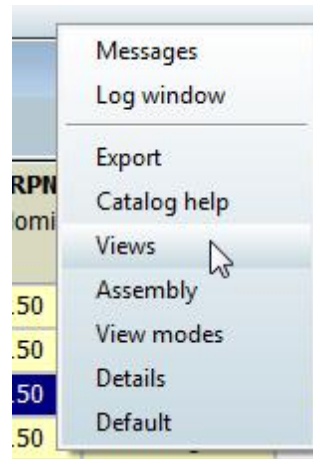
Distance between axes of two cylinders or cones can be measure in the same way by selecting face of cylinder or cone (As described in 5.1.2 (ii)) .

## 5.2 Measure dimensions in 2D view

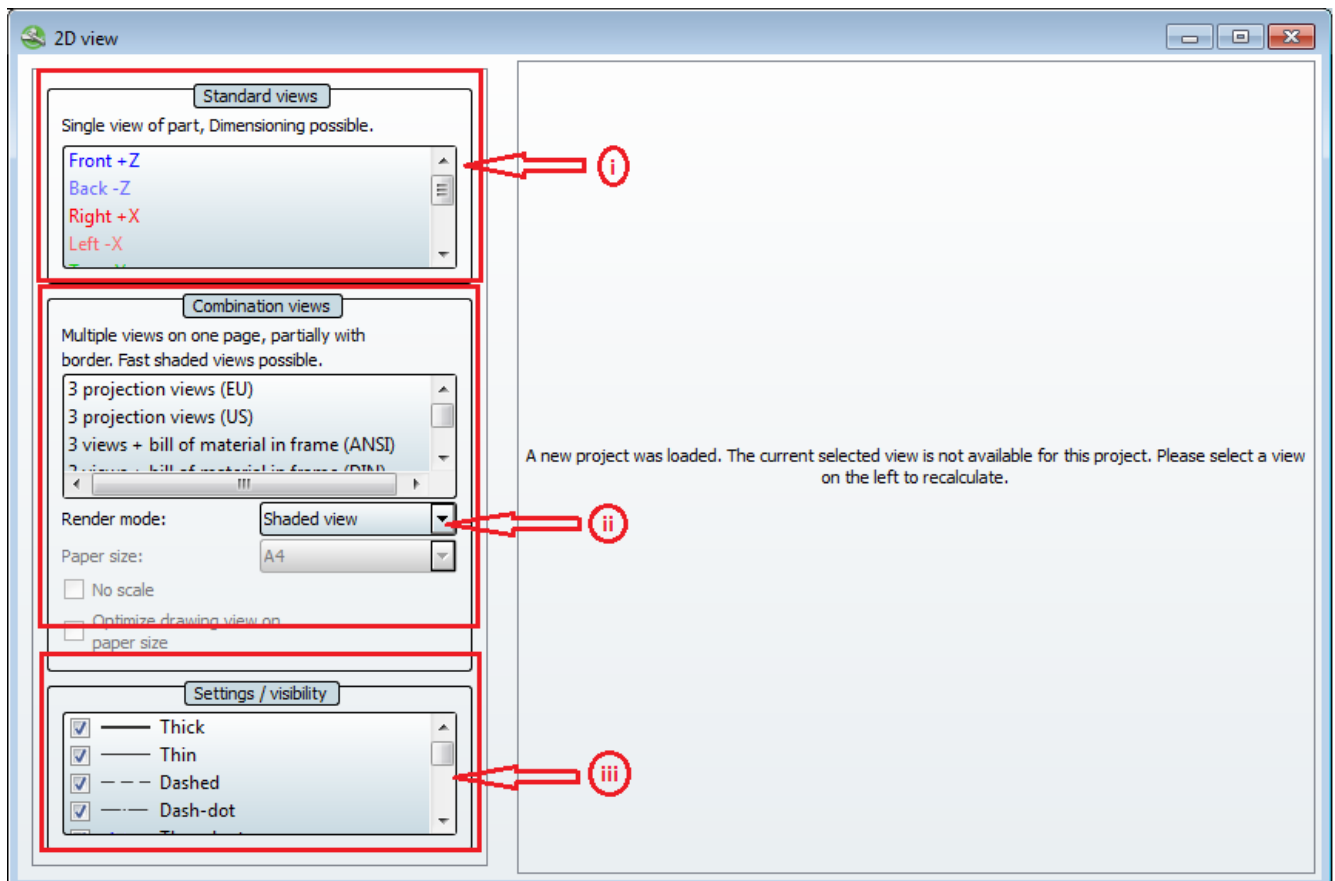
After generating model for required configuration:

### 5.2.1 '2D view' Window

Click on '2-D derivation' tab  on Tool bar. If this tab is not visible then click mouse right button on tool bar and select 'Views' for options.



Below window will appear on the screen.



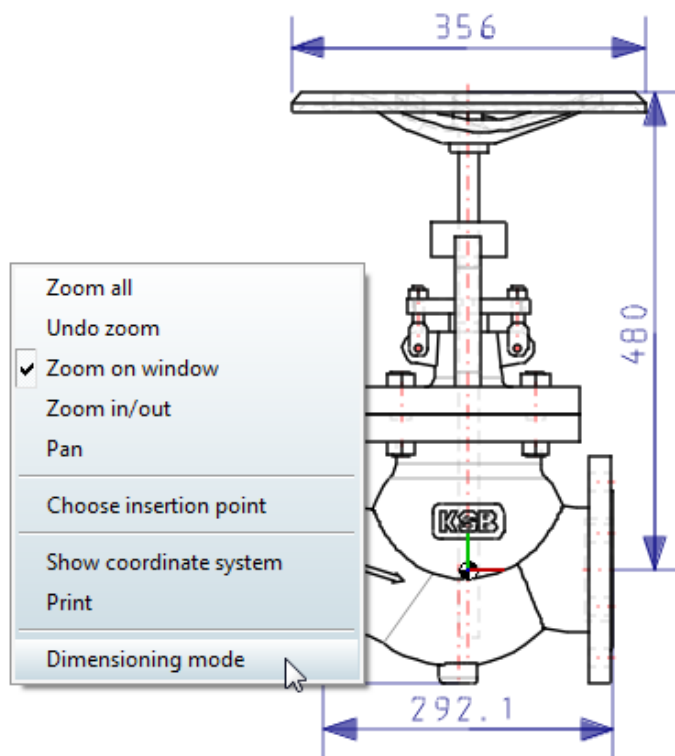
### 5.2.2 Generate desired view.

To generate the desired view

- i) Select the view from 'Standard views' in which dimensions has to be measured box.
- ii) Select the 'Sheet size' and 'Sheet format' from 'Combination view' box.
- iii) Select the lines to be made visible on the drawing from 'Setting / visibility' box.






### 5.2.3 Measure dimensions.

Mouse button right click in '2-D view'. Select 'Dimensioning mode' from menu.



### 5.2.4 Dimensioning styles

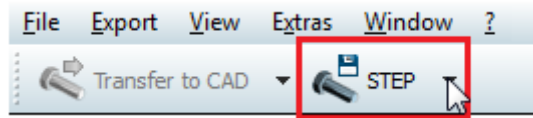
Dimensions can be measured in different styles namely:

- Horizontal dimensions at two points 
- Vertical dimensions at two points 
- Parallel dimensions at two points 
- Diameter with angle and distance 
- Radius  ETC.

**\*If configuration of product changed during measurement in 2D view window; then repeat the procedure from 5.2.2**

## 6 Export

After generating model for required configuration to export the CAD model in desired format:



→ Click on the 'Export to file' tab on tool bar.  
If this tab is not visible then click mouse right button on tool bar and select 'Export' from options.

→ Select desired CAD format for export.

The CAD formats available for export are as below.

<b>2D CAD formats</b>	- ME10 MI2D
<b>2D System</b>	- DXF20 - DXF Binary 2D
<b>3D System Neutral</b>	- DXF 3D - DXF Binary 2D - IGES 3D - SAT ascii 3D - SAT binary 3D - STEP

→ Save the file at desired location.

## 7 Feedback

To report us about malfunction, suggestion, bugs or any other support you need; please email us on following email ids.

1. [frank-udo.kimm@ksb.com](mailto:frank-udo.kimm@ksb.com)
2. [datta.patil@ksb.com](mailto:datta.patil@ksb.com)