



# Spec Generator User Guide

Spec Generator is a product of PROCAD software. It is designed for use with PROCAD SPOOLCAD's products.

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# About Spec Generator

All PROCAD SPOOLCAD piping applications are equipped with *Spec Generator*. This utility allows you to create and edit specifications for your schematics and designs.

Using the Spec Generator you can create three types of specification information files. These are:

- Spec Parameters File
- Branch Fittings Chart
- Material Files

Use the ***Spec Parameters File*** to define the general parameters of the spec (Valve types, ANSI rating, changeover size between flanged and socked weld component etc.). You create one (and only one) Spec Parameters File for each spec type.

Use the ***Branch Fittings Chart*** to define the type of branch fittings to use between different pipe sizes. You create one (and only one) Branch Fittings Chart for each spec type.

- **Note:** If required, you can override the selected branch fitting during the drafting setting.

Use the ***Material Files*** to define the components available for use in your designs. Material files include the size, description/type, material, weight/schedule, rating, manufacturer, destination, valve tag, and catalog number for each component you want to use in your design.

- **Note:** If required, you can add components to your drawing that are not described in the Material Files.
- **Note:** The program includes a set of generic specs (A through F) for ANSI ratings 150# to 2500#. These specs do not include valve materials files. Carefully review the contents of any generic spec ***before*** you use it.

## Software Updates and Technical Support

When properly installed, your PROCAD SPOOLCAD folder contains a Support Web Page icon. Click this icon to receive updates to your software program files. You can only access this feature through the Web.

# Navigating Spec Generator

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## Starting Spec Generator

To start *Spec Generator*, double-click on the ***Spec Generator*** shortcut in the PROCAD SPOOLCAD or PROCAD SPOOLCAD+ folder on your desktop.

SPOOLCAD





**Note:** Use the **Display Units** menu to select units to display in the current session. This is a display setting only. Specs created or edited with English units displayed can be used in metric drawings, and vice versa. This command will also allow you to change the appearance of the ratings within the Spec Generator only.

---

## Definitions

To effectively use the Spec Generator, it is important to understand the concepts of a Client and a Standard.

**Standard** – One standard consists of one or more drawings. Each standard may have the same settings globally applied to all of its drawings through the standard manager. Standards appear as  in the tree diagram to the left of the Spec Generator.

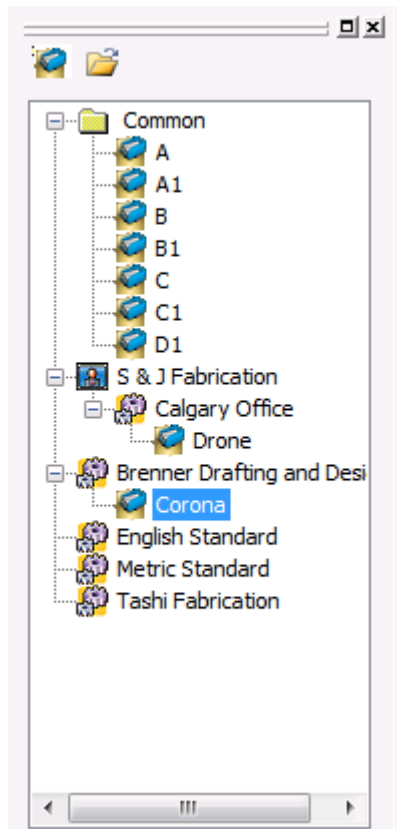
**Client** - One client consists of one or more standards. Clients appear as  in the tree diagram to the left of the Spec Generator

**Common Folder** – This folder contains all specs that are common to all clients, all standards, and thus all drawings.

**Destination** – This may reside within the Common Folder, Standard, Client or individual spec. This represents a physical, real world destination that the part being specified is heading to.

This configuration of drawings, standards and clients can be seen in the example below.





# Procedures

---

## Fully Defining a Spec

To fully create a new spec, perform six steps. These are:

- Opening a New Spec
- Opening the Spec Parameters View
- Entering the General Parameters
- Creating the Branch Fittings Chart
- Selecting Wall Thickness
- Creating the Material Files

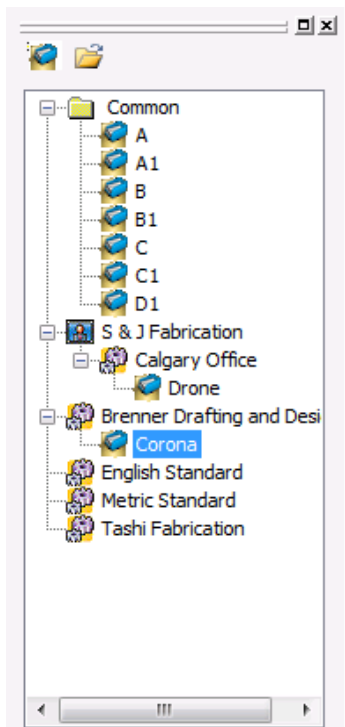
To accept any changes made to a new or existing spec, click the **Apply** button in the dialog box that you are currently working in.

---

## Creating a New Spec

*To create a new spec...*

In the “tree view”, navigate to the standard where you wish to create the new spec. In the example below, the new spec will be created for Brenner Drafting and Design.



From the **Specs** menu, click **New...** or click the **Create New Spec** button.



In the **Enter Spec** field, enter a **name** for your new spec. When you click the **Enter** key, the Spec Parameter view should appear.

## Opening the Spec Parameter View

### *To open the Spec Parameters View...*

1. Complete the steps for **Creating a New Spec**.

If the Spec Generation view is not open, double click on the newly created spec in the “tree view”.

- **Note:** The fields on this tab are information only. They do not affect any aspect of the spec generation. This information appears on the Spec printout.

The following view will appear:

## Entering the General Parameters

1. There are three sub areas that contain information. The first is the **Piping Specifications**.

Changes to the specification may be accepted at any time by clicking the **Apply** button.

- **Note:** The fields on this tab are information only. They do not affect any aspect of the spec generation. This information appears on the Spec printout.

In this field...	Enter/Do this...
Service	the type of service associated with this spec
Material	the material associated with this spec
Design Pressure	The design pressure for the spec, <b>and</b> the associated units. <b>Note:</b> Units are not automatically applied to this field.
Operating Pressure	The operating pressure for the spec, <b>and</b> the associated units. <b>Note:</b> Units are not automatically applied to this field.
Design Temperature	The design temperature for the spec, <b>and</b> the associated units. <b>Note:</b> Units are not automatically applied to this field.
Operating Temperature	The operating temperature for the spec, <b>and</b> the associated units. <b>Note:</b> Units are not automatically applied to this field.
Corrosion Allowance	The corrosion allowance for the spec, and the associated units <b>Note:</b> Units are not automatically applied to this field.
Code	The code for the spec <b>Note:</b> Units are not automatically applied to this field.
Weld Procedure	The weld procedure for this spec <b>Note:</b> Units are not automatically applied to this field.
Heat Treatment	Heat treatment for this spec <b>Note:</b> Units are not automatically applied to this field.
Inspection	Inspection information for this <b>Note:</b> Units are not automatically applied to this field.
Revision	The revision number for this spec. For new specs, enter A.
Revision Date	the date the spec is created

When you complete all fields on **Piping Specifications**, click the **Welded /Flanged** branch tab.

On **Welded /Flanged**, use the drop-down list boxes to select values for the items below.

➤ **Important:** Do not manually enter a value in any field on this dialog.

In this field...	Do this...
ANSI Rating	Click the drop-down list to select the default rating of valves and flange. <b>Note:</b> You can override the default selection during drafting session.
Flange Face	Click the drop-down list to select the default flange type. <b>Note:</b> The system adds the valve face to the description of the valve before placing it in the drawing.
Bolt Type	Click the drop-down list to select the default bolt type.
Gasket Thickness	Click the drop-down list to select the default gasket thickness. Note: If you select OTHER, the system asks for gasket thickness each time a gasket is placed.
WOL/EOL Rating	Click the drop-down list to select the weldolet (WOL) or welded elbolet (EOL) rating.

Lap Joint Flange	Click the drop-down list to select the lap joint flange rating.
Ball Valve Type	Use the drop-down list to select the default type of ball valve <i>Note:</i> If you select ALL, the system asks for type each time you place a ball valve. <i>Note:</i> This setting applies to flanged and welded valves only. It does not affect screwed or socket weld valves. <i>Note:</i> You can override the default selection during a drafting session.
Ball Valve Descriptions	Change the text that is appended to the ball valve's description for use in the Bill of Material. The default values are: <ul style="list-style-type: none"> <li>▪ FP for full port ball valves</li> <li>▪ RP for reduced port ball valves</li> <li>▪ VENTURI for Venturi ball valves</li> </ul>
Plug Valve Type	Use the drop-down list to select the default type of plug valve <i>Note:</i> If you select ALL, the system asks for type each time you place a plug valve. <i>Note:</i> This setting applies to flanged and welded valves only. It does not affect screwed or socket weld valves. <i>Note:</i> You can override the default selection during a drafting session.
Plug Valve Descriptions	Change the text that is appended to the plug valve's description for use in the Bill of Material. The default values are: <ul style="list-style-type: none"> <li>▪ REG PATTERN for regular pattern plug valves</li> <li>▪ SHORT PATTERN for short pattern plug valves</li> <li>▪ VENTURI PATTERN for venturi pattern plug valves</li> </ul>
Check Valve Type	Use the drop-down list to select the default type of check valve <i>Note:</i> If you select ALL, the system asks for type each time you place a check valve. <i>Note:</i> This setting applies to flanged and welded valves only. It does not affect screwed or socket weld valves. <i>Note:</i> You can override the default selection during a drafting session.
Check Valve Description	Change the text that is appended to the check valve's description for use in the Bill of Material. The default values are: <ul style="list-style-type: none"> <li>▪ PISTON for piston check valves</li> <li>▪ SWING for swing check valves</li> <li>▪ WAFER for wafer check valves</li> </ul>

When you complete all fields on the **Welded /Flanged** view, move on to the **Threaded / Socket Weld** dialog.

In this field...	Do this...
Small Fittings Default Type.	Click the drop-down list to select the default type for <i>small</i> fittings and valves. When working with small pipe, the system

	will automatically place the type of fitting specified here. <b>Small is defined below.</b> <b>Note:</b> You can override the default selection during a drafting session.
Small Pipe Start Size	Click the drop-down list to select the <b>small</b> pipe size. Pipe sizes equal to or smaller than the size specified here are considered <b>small</b> . Default fittings and valves for small pipe are selected in the previous field. Default fittings and valves for pipe sizes larger than the size specified are selected on the Welded / Flanged dialog. <b>Note:</b> You can override the default selection during a drafting session.
Pipe Rating	Click the drop-down list to select the pressure rating for pipe. <b>Note:</b> You can override the default selection during a drafting session.
Valve Rating	Click the drop-down list to select the pressure rating for valves. <b>Note:</b> You can override the default selection during a drafting session.
Pipe Nipple Length	Click the drop-down list to select the default pipe nipple length. <b>Note:</b> You can override the default selection during a drafting session.

## Creating the Branch Fittings Chart

The Branch Fittings Chart is a list of fittings to use when connecting main size components to branch size components. When you place a fitting during a drafting session, the system checks the Branch Fittings File.

If you select a fitting that is not in the Branch Fittings File, a warning appears.

### *To create the Branch Fittings Chart...*

Complete the steps for Creating a New Spec and Opening the Spec Parameters View.

### *To apply a default spec...*

1. Click the **Use Default Chart** radio button. The **Settings** list displays all the items in the **default** Branch Fittings Chart.

To **add** an item to the default list:

Select a Branch Size from the drop-down list.

Use the Branch Size drop-down list to select the desired fitting type.

Click **Add** to add your custom item to the Branch File. It appears in the **Settings** list.

### *To delete an item from the default list:*

1. Select an item in the **Settings** list.

Click **Delete** to remove the item from the **Settings** list. You can:

- click a single file to select it
- Shift +click to select a range of files
- press **Ctrl** + click to select multiple files for deleting

Copying a chart from an existing spec then customizing (if required)

***To apply a Chart from an existing spec...***

1. Select the Chart by using the **Copy from Existing Spec** radio button. The **Settings** list displays all the items in the selected Branch Fittings Chart.  
To add an item to the list:

Select a Branch Size from the drop-down list.

Use the Branch Size drop-down list to select the desired fitting type.

Click **Add** to add your custom item to the Branch File. It appears in the **Settings** list.

***To delete an item from the list:***

1. Select an item in the File Preview list.

Click **Delete** to remove the item from the **Settings** list. You can: do one of the following:

- Click a single file to select it
- Shift +click to select a range of files
- Press **Ctrl** + click to select multiple files for deleting

Creating a custom chart

***To create a custom list...***

1. Select a **Branch Size** from the drop-down list.

Select a **Fitting Type** for the Branch Size selected.

Click **Add** to add the custom item to the Branch File.

Repeat steps 1 - 3 for each item you want to add to the **Branch File**.

***To delete an item from the list:***

1. Select an item in the File Preview list.

Click **Delete** to remove the item from the **File Preview** list. You can:

- Click a single file to select it.
- Shift +click to select a range of files.
- Press **Ctrl** + click to select multiple files for deleting.

Ensure you have selected a fitting for each branch size you want to include in the spec.

Continue with Selecting Wall Thickness.

## Selecting Wall Thickness

Wall thickness settings define the schedule/weight for each size of piping component in the spec.

### *To select wall thickness...*

1. Complete the steps for **Creating a New Spec**, and **Opening the Spec Parameters View**. Click the **Wall Thickness** branch in the “tree view”.

Select a size of piping component (that will appear in your spec) from the **Size** drop-down list.

Select the schedule or weight you want this component size to have from the **Settings** list.

Click **Add**. The piping component size and associated schedule/weight appear in the **Settings** list.

Repeat steps 2 - 4 for each component size you want to include in the spec.

- **Note:** To remove an item from the File Preview list, click the item, and then click **Delete**.

When you have added all required component sizes to the list, click **Apply**.

---

## Creating the Material Files

The material files define the components available for use in your designs. Material files include the size, description/type, material, weight/schedule, rating, manufacturer, destination, valve tag, and catalog number for each component you want to use in your design.

- **Note:** If required, components that are not defined in this list can be added to a drawing during a drafting session.

**Important:** Before you edit the **Description** field for any component, refer to Material File Descriptions for important information.

### *To create material files...*

1. Complete the steps for **Creating a New Spec** and the **Opening the Spec Parameters View**. Click **Material Files** branch in the “tree view”.

From the Component drop-down list, select a component type to add to the spec. The data fields to the right of the selected component display data for a single component.

Select the component Size you want to add.

Using the drop-down lists modify all other component attributes as required. Note: You can also manually enter data into any of the component data fields.

Click Add to place the item in the Settings list.



- **Note:** To delete an item from the list, click it, and then click **Delete**.

Repeat steps 2 - 5 for each component you want to add to the spec.

---

## Editing an Existing Spec: Introduction

You can edit all spec information including

- General Parameters
- Branch Fittings Chart
- Material Files

**Warning:** Making changes to a spec may adversely affect drawings created using the initial spec. Be certain that you understand the implications of changing a spec before you edit it.

---

## Editing the Spec Parameters File

**Warning:** Making changes to a spec may adversely affect drawings created using the initial spec, so be certain that you understand the implication.

### *To edit Spec Parameters...*

1. Select the Spec you wish to edit from the Client / Standard tree view.

Open the **Spec Parameters** view.

Edit the spec data as required.

Do one of the following:

- Click **Apply** to save your spec changes.
- Click **Cancel** to exit the dialog box without saving any changes.

---

## Editing the Branch Fitting Chart

**Warning:** Making changes to a spec may adversely affect drawings created using the initial spec, so be certain that you understand the implication.

### *To edit the Branch Fitting Chart...*

1. Select the Spec you wish to edit from the Client / Standard tree view.

Open the **Spec Parameters** view.

Click Branch Fitting Chart. The *Branch Fittings*.

From the **Select Spec** drop-down list, select the spec you want to edit. The **File Preview** list box displays all selected branch sizes and fittings for the selected spec.

Add or Delete items from the chart as follows:

- To **add** an item, select a branch size and fitting from the drop-down lists, then click **Add**.
- To **delete** an item, select an item from the File Preview list, and then click **Delete**.

Click **OK** to save your spec changes.

---

## Editing the Material Files

**Warning:** Making changes to a spec may adversely affect drawings created using the initial spec, so be certain that you understand the implications of editing the Material Files.

### *To edit the Material file...*

1. Select the Spec you wish to edit from the Client / Standard tree view.

Open the **Spec Parameters** view.

Click **Materials**.

From the **Spec Name** drop-down list, select the spec you want to edit. The **Component** field becomes active.

Select the component type you want to edit (ball valve - flanged, for example). The **Setting List** populates with all the ball valves - flanged in the current spec.

You can do any of the following:

- Add an item to the **Setting List**
- Delete an item from the **Setting List**
- Edit an item in the **Setting List**

### *To add an item...*

1. Select the component Size from the drop-down list.

Enter all data required for the component (type, material etc.)

Click **Add** to place the component in the Settings List.

### *To delete an item...*

1. In the Setting List, click the item you want to delete.

Click **Delete** to remove the item from the Settings List.

### *To edit an item...*

1. In the **Setting List**, click the item you want to edit. The data for the selected items populates the fields in the upper right of the dialog box.

Edit the data using the drop-down lists, or by manually entering the required data.

Click **Update** to place the new data in the **Settings List**.

- **Important:** Updating the Setting Lists **does not** save the information. You must click **OK** to save the new data.

When you have completed all changes to the Material File, do one of the following:

- Click **OK** to save all changes to the **Settings List** and close the dialog box.
- Click **Cancel** to exit the dialog box without accepting any of the changes made in the session.

## Diameter Inch Factors

The *Diameter Inch Factor* dialog box allows you to enter different factors that are used to change the Diameter Inch.

### *To make changes in the Diameter Inch Factor...*

1. Select the Spec you wish to edit from the Client / Standard tree view.
2. Open the **Spec Parameters** view.
3. Click **Diameter Inch Factors**. The *Diameter Inch Factor* dialog box appears.
4. Enter the following information:

In this field...	Enter/Do this...
Socket Weld	Enter the factor for socket welded components
Weldolet	Enter the factor for weldolet
Elbowlet	Enter the factor for elbowlets
Thredolet/Sockolet	Enter the factor for thredolet/sockolet
Stub-in	Enter the factor for stub-in
Stub-on	Enter the factor for stub-on
Settings	This is a chart where you can enter the factors for other welded components. These factors include the wall thickness, operations factor, etc.

5. Click **Apply** to save the changes.

## Using the Global Changes Utility

The *Global Changes* dialog box allows you to search and replace material field text in the selected spec.

**Warning:** **Global Changes** is a powerful tool that can make broad based, critical changes in the Material Files.

### *To make a global change...*

1. Select the Spec you wish to edit from the Client / Standard tree view.
2. Open the **Spec Parameters** view.
3. Click **Global Changes**. The *Global Changes* dialog box appears.

4. Enter the following information:

In this field...	Enter/Do this...
Spec Name	Click the drop-down list to select the Spec you want to change.
Item	Select the material field you want to change data in.
Look for:	Enter the text you want to look for. <b>Note:</b> Text is case sensitive.
Replace with:	Enter the text you want to replace the text entered in Look for.
Replace	Click to replace the <i>Look for</i> text with the <i>Replace with</i> text. <b>Warning:</b> This action automatically updates the material files. You cannot undo this action.
Close	Click to close the dialog box. Note: The OK button does not prompt the system to save. Each time you click the <b>Replace</b> button, the material files update automatically.
Help	Click to view context sensitive Help for this dialog box

5. Do one of the following:
- Click **Replace** to replace the selected text.
  - Click **Close** to exit the dialog box without making any changes.

# Using Spec Utilities

---

## Copying a Spec

The **Copy** function copies these spec files and saves them to a new directory:

- Spec Parameters
- Branch Fittings Chart
- All Material Files

### *To copy a spec...*

1. In the tree view, highlight the spec that you wish to copy.

Right click and select **Copy** or click **Copy** in the *Spec* menu.

In the **Select Location** dialog, navigate to the location that you wish the copy to reside in.

Click **Copy**. Click **Cancel** to exit the **Select Location** dialog box without copying a spec.

---

## Deleting a Spec

Use the **Delete** utility to delete all spec files including:

- Spec Parameters
- Branch Fittings Chart
- Material Files
- The spec directory

*Note:* You can also use the **Delete** feature to remove the **Material Files** only.

### *To delete a spec...*

1. In the tree view, highlight the spec that you wish to copy.

Right click and select **Delete** or click **Delete** in the *Spec* menu.

Using the **Select Files to Delete** check boxes, select what you want to delete. You can delete:

- All spec files (including Material Files and directory) - by clicking **Entire Spec**
- All Material Files - by clicking **Material Files**
- Spec and Branch Fitting files - by clicking **Spec & Branch Type**

To delete **selected** Material Files, ensure the Materials Files check box is *not* selected then do one of the following:

- Click a single file to select it
- Shift +click to select a range of files
- Press **Ctrl** + click to select multiple files for printing

When you have selected the files to delete, do one of the following:

- Click **Delete** to delete the selected files.
- Click **OK** to exit the *Spec Utilities* dialog box without deleting any spec files.

---

## Renaming a Spec

The **Rename** utility renames a spec file directory:

### *To rename a spec...*

1. In the tree view, highlight the spec that you wish to copy.
- Right click and select **Rename** or click **Rename** in the *Spec* menu.
- In the **Enter New Spec Name** field, enter a new name for the spec.
- Click **Enter** to rename the selected spec.

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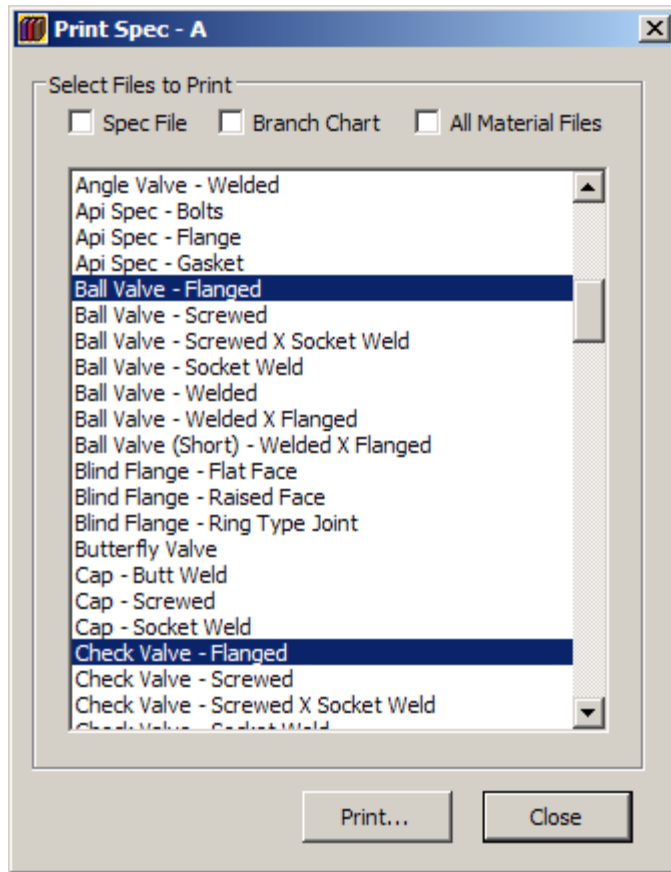
## Printing a Spec

Use the print feature to print a paper copy of:

- Spec Parameters
- Branch Fittings Chart
- One or more Material Files

### *To print a spec...*

1. In the tree view, highlight the spec that you wish to copy.
- Right click and select **Print** or click **Print** in the *Spec* menu.



Select the information you want to print using the fields and check boxes described here:

In this field...	Enter/Do this...
Spec Name	Click the drop-down list to select the Spec you want to print.
Spec File Checkbox	Click to select the Spec Parameters file for printing.
Branch Chart Checkbox	Click to select the Branch Fittings Chart file for printing.
All Material Files Checkbox	<p>Click to select <b>All</b> component files for printing. The component files list is located in the right side of the dialog box.</p> <p><b>Note:</b> To select specific component files for printing, and do one of the following:</p> <ul style="list-style-type: none"> <li>- Click a single file to select it</li> <li>- Press <b>Shift</b> +click to select a range of files</li> <li>- Press <b>Ctrl</b> + click to select multiple files for printing</li> </ul>

Do one of the following:

- Click **Print** to print the selected files and company data.

**Note:** Printed specs display the information entered in the *Company Information* dialog box.

- Click **OK** to exit the *Spec Utilities* dialog box without printing.

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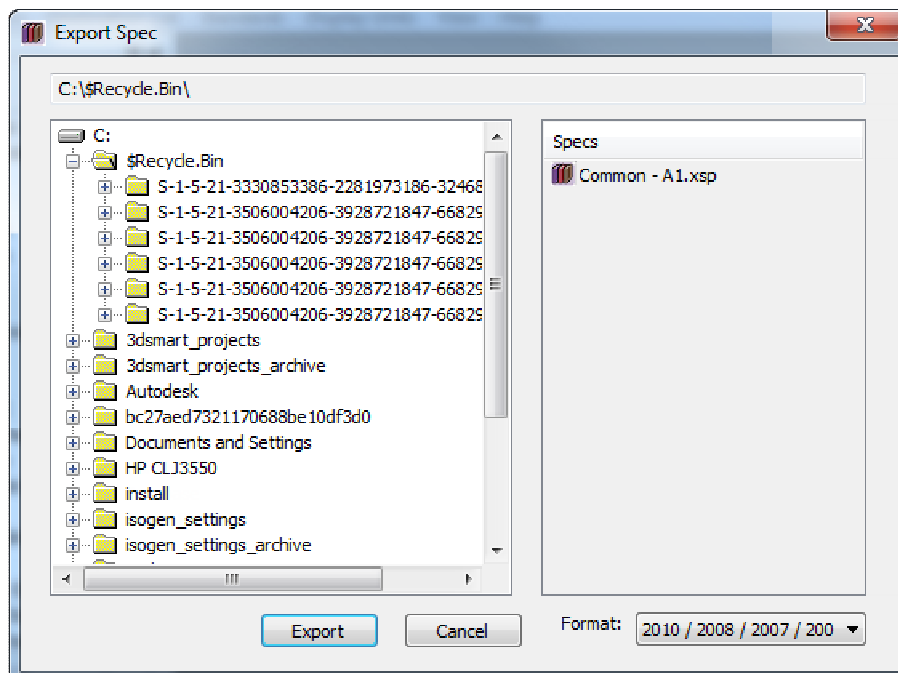
## Importing and Exporting Specs

Use this utility to export and import specs you may have from 2D DESIGNER or PapriCAD applications.

### To export specs...

- In **PROCAD SPOOLCAD**, run the **Spec Generator** application
- Highlighting the specs you would like to export
- Right click the mouse and choose **export...**

The **Export Spec** Dialog box appears



- Choose a spec folder to export, and then click **Export**
- The Export Spec Dialog box will close and your spec will be exported to the specified location.

**Note:** The spec can be exported in different formats.

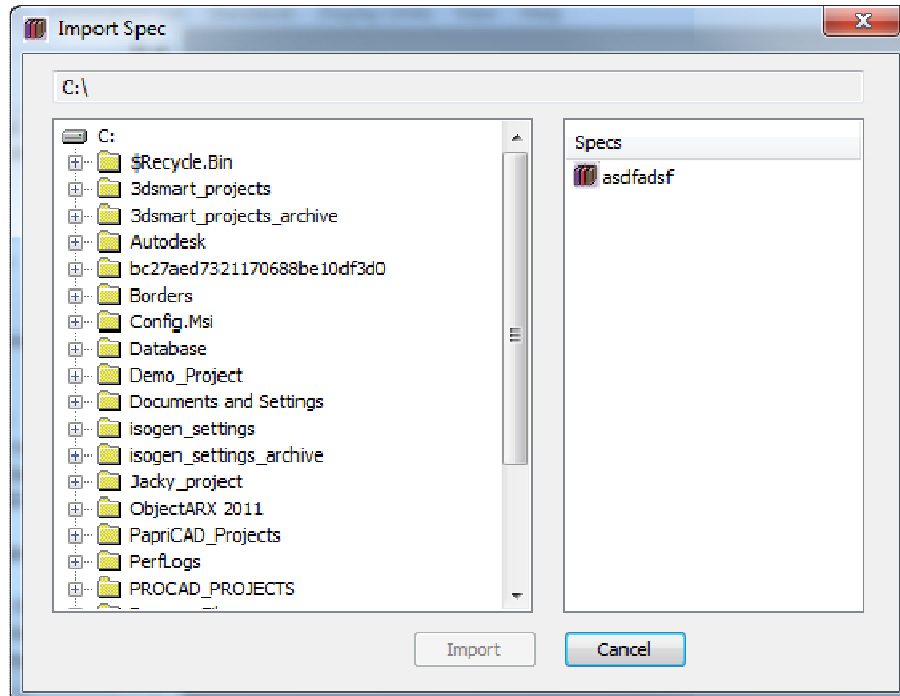
### To import specs...

You will probably have specs from a previous version or **2D DESIGNER** or **PapriCAD** that you will want to use with **PROCAD SPOOLCAD V2017**. To import these specs, all you need to do is run the **Spec Generator** program, found in the **PROCAD SPOOLCAD V2017** folder on your desktop, and follow these steps.



1. In the list of specs on the right side of the **Spec Generator** right click on the **Common** folder
2. Click the **Import** option

The **Import Spec** Dialog box appears



3. On the left panel, select the location of the spec
4. On the right panel, select the spec you want to import. Multiple specs can be selected and imported at one time.
5. Click **Import**
6. The **Import Spec** Dialog box will close and your spec will be imported to the **Common** folder

**Note:** The spec is not usable in a standard until you use the standard manager and select the spec.

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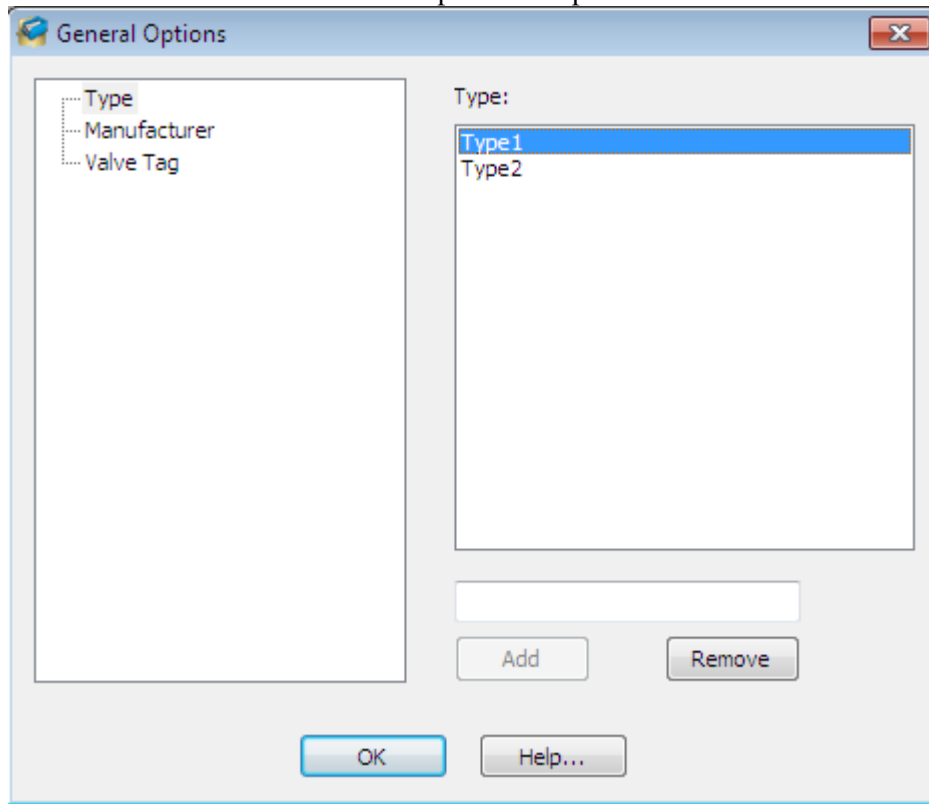
## Working with Material Files

### Modifying the General Options: Introduction

The Spec Generator stores component information in Material Files. The system stores data for each component type in a separate data file. For all component **type** there are three **General Options**: Type, Manufacturer and Valve Tag. Changes you make here affect the component data for all specs.

Using the *General Options* dialog box you can:

- Add new items to the material fields. For example, you could add a new manufacturer for pipe.
- Delete items from the material fields. For example, you could delete a manufacturer for pipe.
  - **Warning:** Deleting material file information may seriously affect existing drawing files. Never delete material file information unless you are aware of all possible implications.



## Adding an item to the General Options

You can add an item to the General Options. When you add an item it is available for inclusion in any spec.

### *To add an item to the General Options...*

1. In the **Edit** menu, click **General Options**. The *General Options* dialog box appears.
2. From the **Category** list, select a category you want to work with. All data for the selected category appears in the item lists.
3. Enter the item information you want to add in the **Option Text** field (a new **type**, for example). The **Add** button for the list becomes active.
4. Click the **Add** button to add the information to the list. The new data appears in the list.
5. Repeat steps 2 to 4 for every item you want to add.

6. Click **OK** to close the *General Options* dialog.

**Note:** All modifications are saved to the database at the time they are made.

## Deleting an item from the General Options

You can delete an item from the General Options. When you delete an item it is no longer available for inclusion in any specs.

**Note:** Deleting an item will not remove that item from components that are already added to existing specs.

**Warning:** Deleting material field options may seriously affect your drawing files. Never delete an option unless you are aware of all possible implications.

**Critical:** You cannot undo any deletion.

### *To delete a component from the General Options...*

1. In the **Edit** menu, click **General Options**. The *General Options* window appears.
2. From the **Category** list, select a category you want to work with. All data for the selected category appears in the item lists.
3. Click the option you want to delete. The **Remove** button for the list becomes active.
4. Click **Remove** to remove the option(s) from the list.
5. Repeat steps 2 to 4 for every option you want to delete.
6. Click **OK** to close the *General Options* dialog.

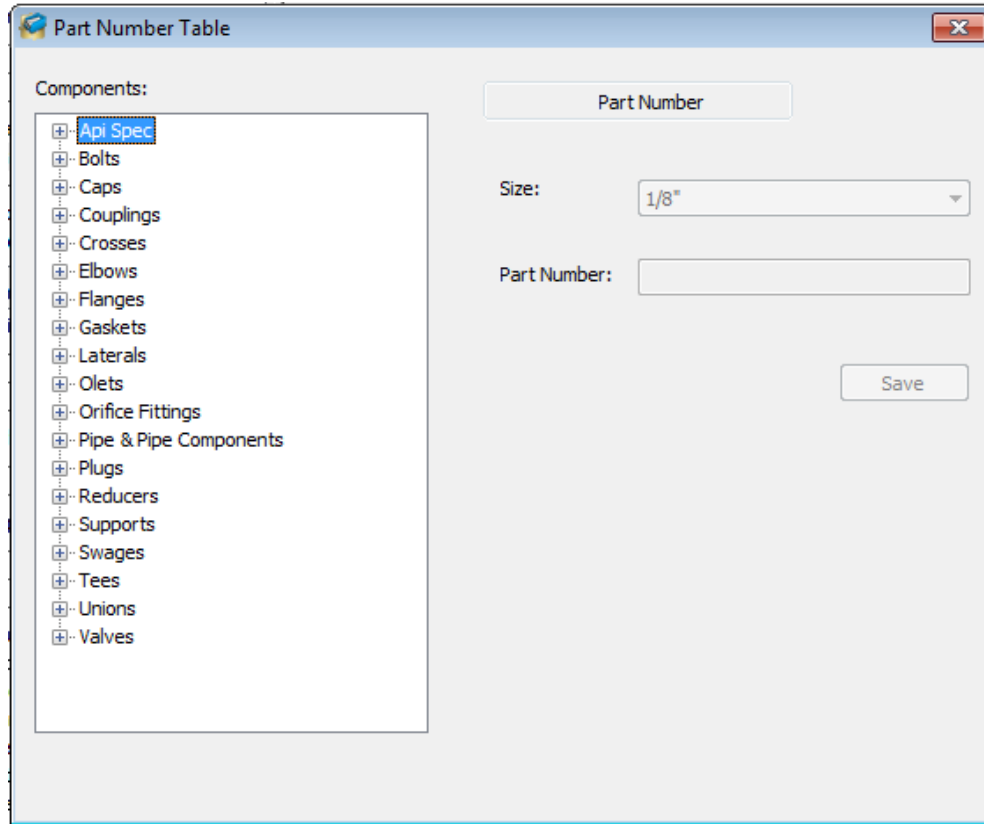
**Note:** All modifications are saved to the database at the time they are made. *You cannot undo a delete action.*

## Modifying the Part Number List: Introduction

The Spec Generator stores the part number list information for use when adding components. The system stores data for each component size in a separate data file.

Using the *Part Number table* dialog box you can:

- Edit the part number for a specific component size.
- Add a part number to specific component sizes. Eg: You could add a part number for 4" pipe.
- Delete a part number to specific component sizes. Eg: You could delete the part number for 4" pipes.



### Adding a part number to the Part Number list

You can add a part number to any component size. When you add a part number it is available for inclusion in any spec.

#### *To add a part number to the Part Number List...*

1. In the **Edit** menu, click **Part Number**. The *Part Number Table* dialog box appears.
2. From the **Component** list, select a component group you would like to work with. Select the size for the component from the size combo box.
3. Enter the part number information you want to add to that component size.
4. Click the **Save** button to add the information to the list.
5. Repeat steps 2 to 4 for every component size you want to add a part number for.
6. Click the close button to close the *Part Number Table* dialog.

**Note:** All modifications are saved to the database at the time they are made.

### Deleting a part number in the Part Number list

You can delete a part number from any component size.

**Note:** This will not remove the part number from components already added to existing specs.

***To remove a part number from the Part Number List material field options...***

1. In the **Edit** menu, click **Part Number**. The **Part Number Table** dialog box appears.
2. From the **Component** list, select a component group you would like to work with.
3. Select the size for the component from the size combo box.
4. Erase the item's information you want to remove for that component size.
5. Click the **Save** button to remove the information from the list.
6. Repeat steps 2 to 5 for every component size you want to remove a part number from.
7. Click the close button to close the **Part Number Table** dialog.

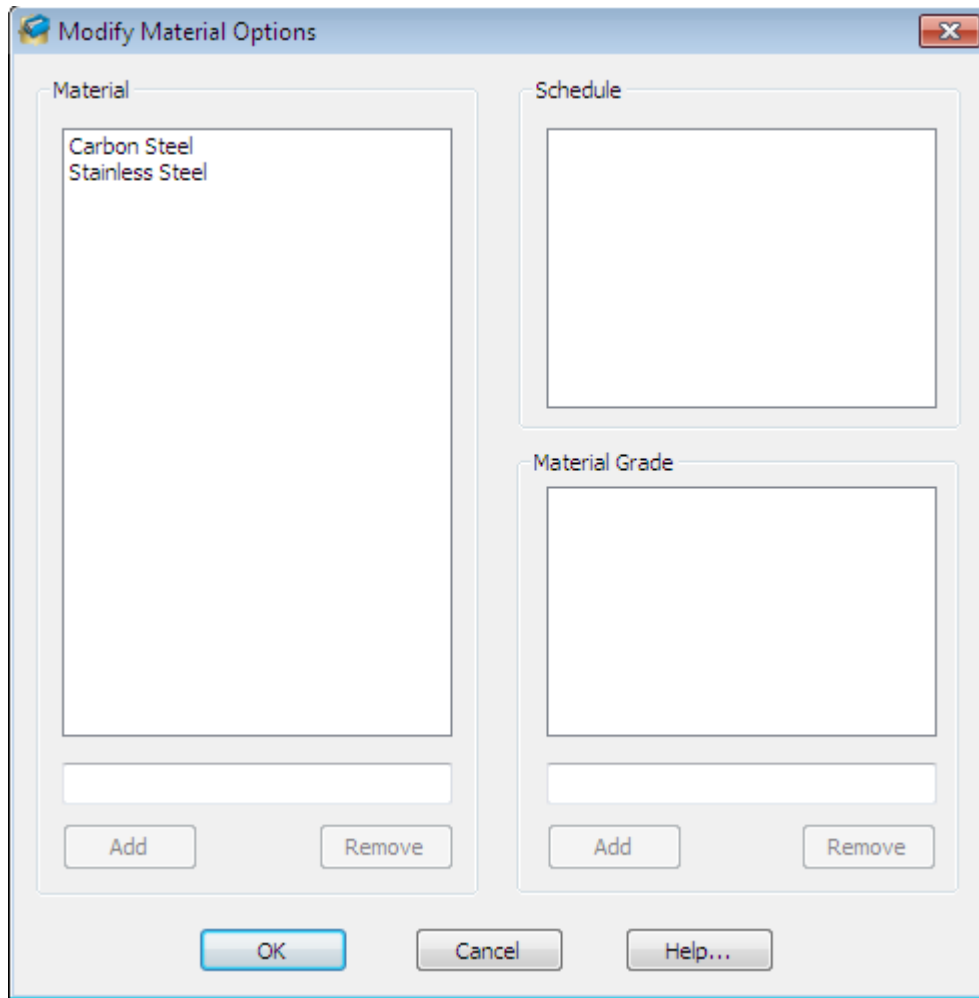
**Note:** All modifications are saved to the database at the time they are made.

## **Modifying the Material Options: Introduction**

The Spec Generator stores the Material Group and Material Grade information for use when adding components. The system stores data for each component type in a separate data file.

Using the **Material Options** dialog box you can:

- Add Material Groups or Material Grade to the material list. Eg: you could add Stainless Steel group to the material list.
- Delete Material Groups or Material Grade to the material list. Eg: you could delete Stainless Steel group from the material list.
- Associate schedules to a specific Material group. Eg: you can add Schedule 40 to Stainless Steel group.



### Adding material group or material grade to the Material Options

You can add material groups or material types to use with any component. When you add the groups or types, it is available for inclusion in any spec.

#### *To add a material group or material grade to the Material Options...*

1. In the **Edit** menu, click **Material Options**. The *Material Options Table* dialog box appears.
2. Enter the material group or material grade in the corresponding textbox.
3. Click the **Add** button and the information in the textbox will be added to the corresponding list.
4. Repeat steps 2 and 3 to add more material groups or grades.
5. Click the **OK** button to close the *Material Options Table* dialog.

**Note:** All modifications are saved to the database at the time they are made.

## Deleting material group or material grade in the Material Options

You can delete material groups or material grade from the Material Options.

**Note:** This will not remove the material type or material group already added to existing specs.

### *To delete a material group or material grade from the Material Options...*

1. In the **Edit** menu, click **Material Options**. The *Material Options Table* dialog box appears.
2. From the material group list or material grade list, select the item you would like to delete. You are able to select multiple items from the list by holding the ctrl key and selecting another item.
3. After you have made the selections, click the **Remove** button to remove it from the list.
4. Repeat steps 2 and 3 to remove other material groups or grades.
5. Click the **OK** button to close the *Material Options Table* dialog.

**Note:** All modifications are saved to the database at the time they are made.

## Assigning Schedules to Materials in the Material Options

You can assign schedules to materials for use when adding weights in the **Shop Settings Manager**.

### *To assign Schedules to materials from the Material Options...*

1. In the **Edit** menu, click **Material Options**. The *Material Options Table* dialog box appears.
2. From the material group list select the item you would like to assign schedules to.
3. The Schedule list will populate and allow you to check which schedule you want to assign to the Material.
4. After you have made the selections, click the **OK** button to apply the change.

## Modifying the Weight and Schedule List: Introduction

The Spec Generator stores the component weight and schedule information for use when adding components. The system stores data for each component type in a separate data file.

Using the *Weight/schedule table* dialog box you can:

- Add schedules to use in a specific spec. For example, you could add a SCH. 20s.
- Delete schedules that belong to a specific spec. For example, you could remove SCH. 20s.

## Adding weight and schedule to the Material Options

You can add weight and schedule to use with any component. When you add the weight and schedule, it is available for inclusion in any spec.

### *To add a weight and schedule to the Material Options...*

1. In the **Edit** menu, click **Weights/Schedules**. The *Weights/Schedules Table* dialog box appears.
2. Enter the name of the schedule you would like to add in the textbox.
3. Click the **Add** button and the information in the textbox will be added to the weight/schedule list.
4. Repeat steps 2 and 3 to add more to the list.
5. Click the **Close** button to close the *Weight/Schedules List Table* dialog.

**Note:** All modifications are saved to the database at the time they are made.

## Deleting weight and schedule from the Material Options

You can delete weights and schedules from the Material Options.

**Note:** This will not remove the weights and schedules already added to existing specs.

### *To delete weight and schedule from the Material Options...*

1. In the **Edit** menu, click **Weights/Schedules**. The *Weights/Schedules Table* dialog box appears.
2. Select the schedule from the list that you would like to remove.
3. Click the **Delete** button and the information will be removed from the list.
4. Repeat steps 2 and 3 to remove more from the list.
5. Click the **Close** button to close the *Weight/Schedules List Table* dialog.

**Note:** All modifications are saved to the database at the time they are made.

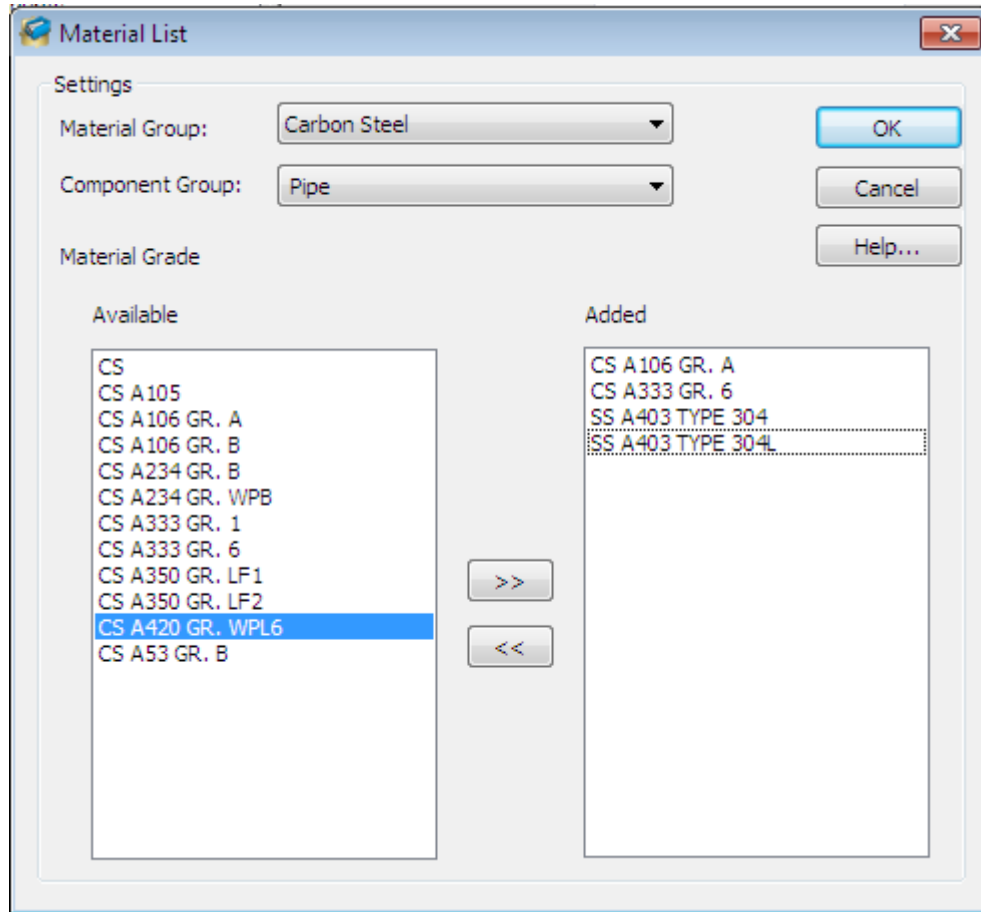
## Modifying the Material List: Introduction

The Spec Generator stores the Material List information for use when adding components. The system stores data for each component type in a separate data file.

Using the *Material List* dialog box you can:

- Add material grade to specific component groups. Eg: you can add CS 105A material grade to the pipe group.
- Delete material grade from specific component groups. Eg: you can remove CS 105A material grade from the pipe group.





## Adding material grades to the Material List

You can add weight and schedule to use with any component. When you add the material grades, it is available for inclusion in any spec.

### *To add material grades to component group in the Material List...*

In the **Edit** menu, click **Material List**. The *Material List* dialog box appears.

1. Use the dropdown box to select a Material Group as well as the component group.
2. The available and added list will be shown at the bottom.
3. Items under the Available list can be added to a component group. Items under the Added list have been added to the component group.
4. Select the material grade from the available list and click the right arrow to move it into the added list.
5. Repeat step 4 to add more to the list.
6. Click the **Close** button to close the *Material List* dialog.

**Note:** All modifications are saved to the database at the time they are made.

## Deleting material grades from the Material List

You can remove material grades from the **Material List**.

**Note:** This will not remove the material grades already added to existing specs.

### *To remove material grades from the component group in the Material List...*

1. In the **Edit** menu, click **Material List**. The **Material List** dialog box appears.
2. The available and added list will be shown at the bottom.
3. Select the material grade from the added list and click the left arrow to move it out of the added list.
4. Repeat step 3 to remove more from the list.
5. Click the **Close** button to close the **Material List** dialog.

**Note:** All modifications are saved to the database at the time they are made.

---

## Display Unit Procedures

### Changing the Display Format for the Units

The numerical information within the Spec Generator may be displayed in multiple unit formats. There are four options to select from:

- **Imperial - US:** to have component sizes displayed in US Imperial units (Example, 4")
- **Imperial - NPS:** to have component sizes displayed in Imperial units using standard nominal pipe size designations (example, NPS 4)
- **Metric - OD:** to have component sizes displayed in metric units using standard pipe OD size designations (example, 114.3mm)
- **Metric - NPS:** to have component sizes displayed in metric units using standard nominal pipe size designation (example, 100mm)

### *To change the format the units are displayed in...*

- From the **Edit** menu, select the **Sizes** sub menu.

Right-click on the display option that you wish to have active.

### Changing the Display Format for the Ratings

The rating information within the Spec Generator may be displayed in multiple unit formats. There are five options available, which are all modifiable by the user.

### *To change the format the ratings are displayed in...*

- From the **Edit** menu, select the **Ratings** sub menu.

Right-click on the display option that you wish to have active.

## Modifying the Display Format for the Ratings

The rating information within the Spec Generator may be displayed in multiple unit formats. There are five options available, which are all modifiable by the user.

### *To modify the format the ratings are displayed in...*

1. From the **Edit** menu, select the **Ratings** sub menu.
2. Select the **Edit** command.
3. The Edit Ratings Display dialog box will appear. Right-click in any of the individual cells.
4. Type in the desired format.
5. Repeat steps 3 and 4 as many times as necessary to achieve the desired formatting for one or multiple styles.
6. Click the **OK** button to save the format changes.

## Other Procedures

### Entering Company Information

Use the **Company Information** dialog box to create header information for printed specs. Information you enter here appears at the top of all your printed specs. All company information is optional, and you can change company information at any time.

### *To enter company information...*

- In the **Edit** menu, click Company Info. The Company Information Dialog Box appears.

Enter the following information:

In this field...	Do this...
Name	Enter your company name (optional field)
Address	Enter your company street address (optional field)
City	Enter your company location (optional field)
Prov./State	Enter your company location (optional field)
Country	Enter your company location (optional field)
Postal/Zip Code	Enter your company postal or zip code (optional field)
Phone	Enter your company phone number (optional field)
Fax	Enter your company fax number (optional field)

Do one of the following:


- Click **OK** to save the company data you entered.

**Note:** This information appears at the top of all printed specs.


- Click **Cancel** to exit the *Company Information* dialog box without saving any company information.

## Creating a New Destination List

### *To create a destination list for a spec....*

1. In the tree list, navigate to the spec that you would like to generate a destination list for. Destination lists may also be created for standards, clients or the common folder.
2. In the **Destination List** menu, click **Create**. The *Destination List* dialog box appears.
3. Enter the destinations to add in the destination field. The **Add** buttons for the all lists become active.  

4. Click the **Add** button where you want to add data (the **Type** list, for example). The new data appears in the list.
5. Repeat steps 2 to 5 for every item you want to add.

### *To delete a destination from the destination list....*


1. From the **Destination** list click the option you want to delete. The **Delete** button for the list becomes active.  

2. Click **Delete** to remove the option(s) from the list.
3. Click **OK** to close the *Destination List* dialog.

**Note:** You can only delete from one item at a time.

**Note:** All modifications are saved to the database at the time they are made.

## Editing a New Destination List

### *To edit a destination list for a spec....*

1. In the tree list, navigate to the existing destination list that you would like to edit.
2. To open the **Destination List** dialog box, either double click on the Destination List icon in the tree view , click **Edit** from the *Destination List* menu, or click **Edit** from the right click menu
3. Add or delete the destinations you wish to modify.
4. Click **OK** to close the *Destination List* dialog.

**Note:** All modifications are saved to the database at the time they are made.

# Dialog Boxes

## Branch Fittings Chart Dialog Box

Use this dialog box to create or edit the Branch Fitting File. Scroll down for field information and related topics.

In this field...	Do this...
File Preview List	This displays a list of all items in the Branch Fittings Chart
Use Default Settings	Click to apply default Branch Fittings settings to the current spec. The default settings display in the Preview List.
Copy From Existing Spec	Select Branch Fittings of another spec apply them to the current spec. The spec settings display in the Preview

	List.
Main & Branch Size	Select a main branch size from the drop-down list
Fitting Type	Apply a fitting type to the branch size selected above
Add	Click to an item to the Preview List. This option is only available if you manually select a branch size and corresponding fitting type using the drop-down lists.
Delete	Click to delete an item from the Preview List. This option is only available if you select an item to delete.
Apply	Click to close this dialog box. All changes to the Branch Fittings are automatically saved.
Help	Click to view context sensitive Help for this dialog box.

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## Company Information Dialog Box

Use this dialog box to enter company information. The information you enter in this dialog box appears on all printed specs. Scroll down for field information and related topics.

The screenshot shows the 'SpecGenerator' dialog box with the 'Company Information' tab selected. The fields are as follows:

- Name : PRO-CAD Software Ltd.
- Address : 12 Elbow River Road
- City: Calgary
- Prov./State: AB
- Country: Canada
- Postal/Zip Code: T3Z 2V2
- Phone : (403) 216-3375
- Fax : (403) 216-3378

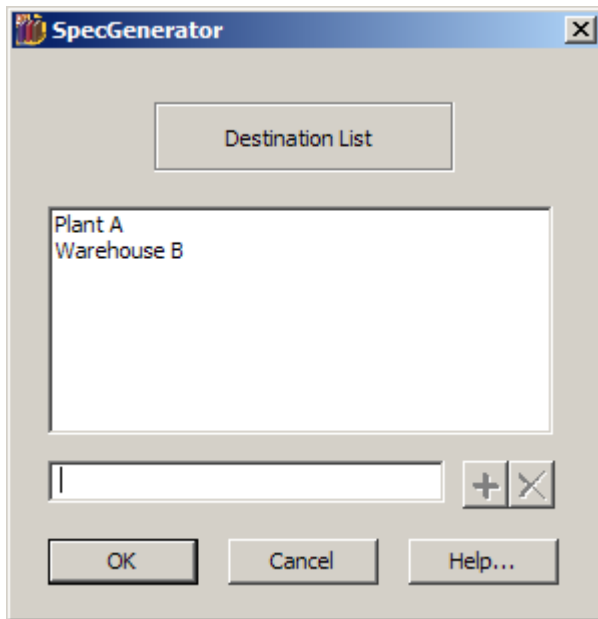
Buttons on the right: OK, Cancel, Help...

In this field...	Do this...
Name	Enter your company name (optional field)
Address	Enter your company street address (optional field)
City	Enter your company location (optional field)
Prov./State	Enter your company location (optional field)
Country	Enter your company location (optional field)
Postal/Zip Code	Enter your company postal or zip code (optional field)

Phone	Enter your company phone number (optional field)
Fax	Enter your company fax number (optional field)
OK	Click to close this dialog box. All changes to the Company Info are automatically saved.
Cancel	Click to close this dialog box without saving changes to the Company Info
Help	Click to view context sensitive Help for this dialog box

## Destination List Dialog Box

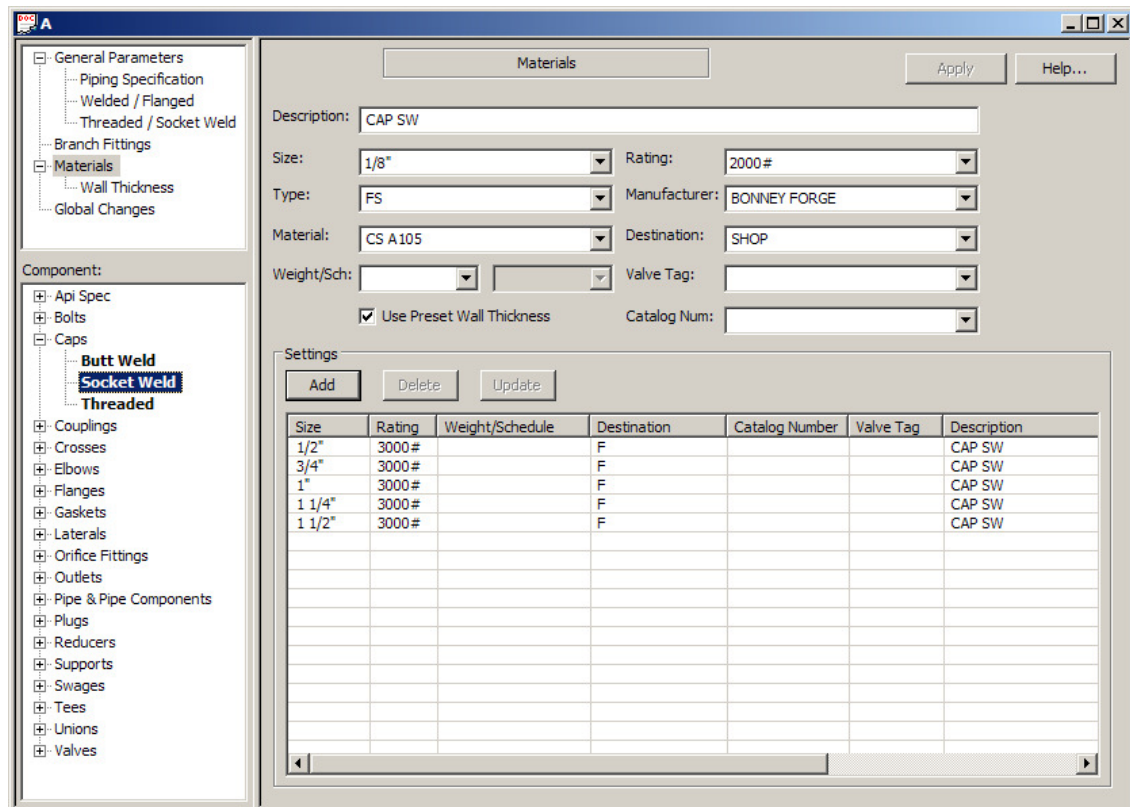
Use this dialog box to create or edit the information for a new or selected destination list.  
Scroll down for field information and related topics



In this field...	Enter/Do this...
Destination List	Select the destination you want to change data in
Add Destination	Add the destination in the entry field to the current destination list.
Remove Destination	Remove the highlighted destination from the current destination list.
Cancel	Click Cancel to exit the Destination List dialog box without saving any changes that have been made
OK	Click OK to exit the Destination List dialog box. All changes are automatically saved at the time they are made. You cannot exit this dialog box without saving changes.
Help	Click to view context sensitive Help for this dialog box

## Edit Material Files Dialog Box

Use this dialog box to create or edit the material files information for a new or selected spec. Scroll down for field information and related topics.



In this field...	Do this...
Description	This field populates when you select an item from the drop-down list. If the item you select does not have an associated description, you may add one here. You may also edit the default description. <b>Important:</b> Before you modify any component description, refer to Material File Descriptions: SPOOLCAD.
Use Preset Wall Thickness Check Box	Click to assign the predefined wall thickness to the selected component
Edit Button (for Wall Thickness)	Click this button to access the Wall Thickness Dialog Box where you can change the default wall thickness for any component size
Size	Select the size of component you want to add to the spec

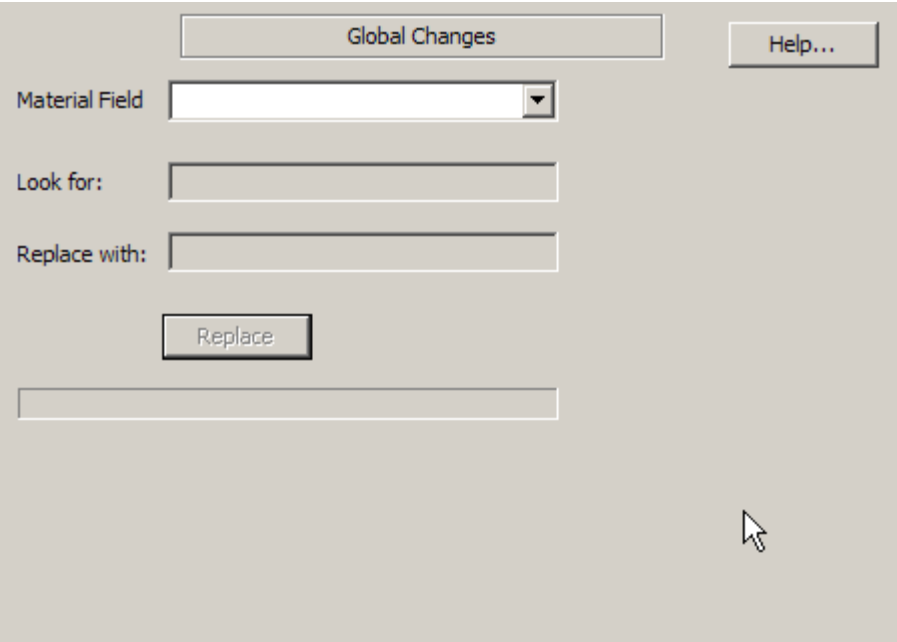


Type	Appends type to the description when it goes into table.
Material	Select the material for the selected component
Weight/Schedule	Select the weight/schedule for the selected component
Rating	Select the rating for the selected component
Manufacturer	Select the manufacturer for the selected component
Destination	Select the destination for the selected component
Valve Tag	Select the destination for the valve tag component
Catalog Number	Select the destination for the catalog number component
Add	Click to add the currently selected component data to the Settings List
Delete	Click to delete a set of component data from the Setting list <b>Note:</b> This option is only available if you select an item from the Setting List
Setting List	The list displays all of the components in the spec for the selected component group. For example - if you select Pipe in the Component field, the list of all pipe options displays in the Setting List. If you click on any item in the list, the data for the items populates the data fields. You can <b>edit</b> this data by making new selections from the drop down lists, or by manually entering a new option. You can <b>add</b> or <b>delete</b> items from this list using the buttons described below.
Update	Click to Update a settings list item with the data that appears in the This option is only available when you select an item from the settings list.
Next Item	Click to select the next item in the Settings list
Previous Item	Click to select the Previous item in the settings list
Apply	Click to close the dialog box <b>Note:</b> All changes to the material files are automatically saved to the selected spec file
Help	Click to view context sensitive Help for this dialog box

## Global Changes Dialog Box

Use this dialog box to make global changes to material fields in a selected spec. Scroll down for field information and related topics.

**Warning:** **Global Changes** is a powerful tool that can cause broad based, critical changes in the Material Files.



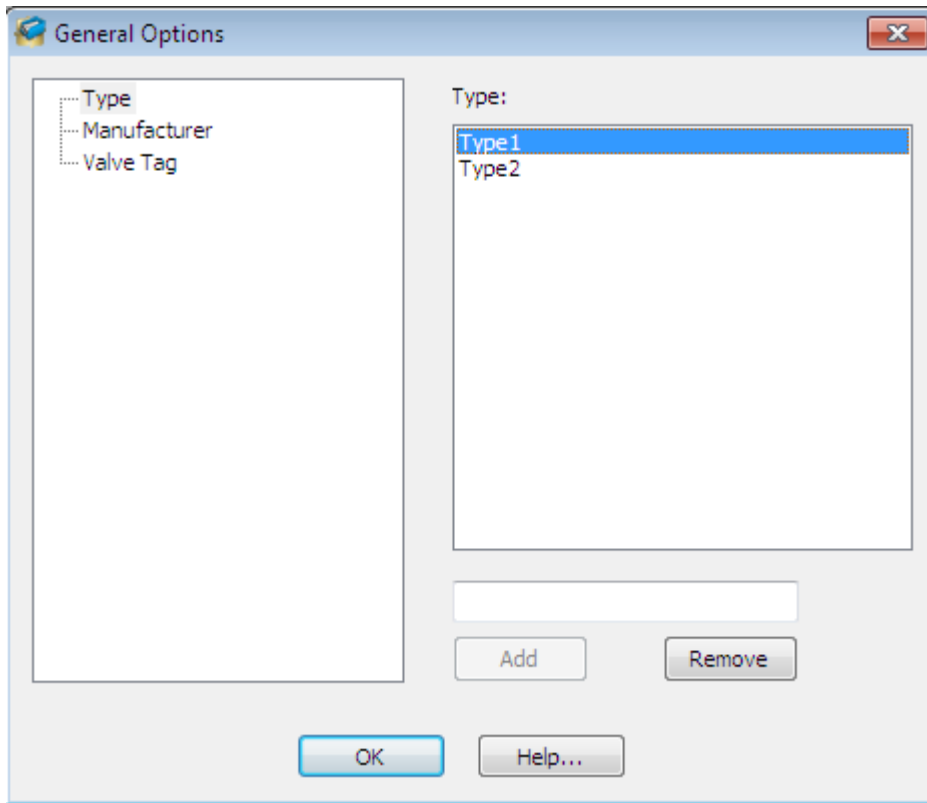
In this field...	Enter/Do this...
Material Field	Select the material field you want to change data in
Look for:	Enter the text you want to look for <b>Note:</b> Text is case sensitive.
Replace with:	Enter the text you want to replace the text entered in Look for
Replace	Click to replace the <i>Look for</i> text with the <i>Replace with</i> text <b>Warning:</b> This action automatically updates the material files. You cannot undo this action.
Help	Click to view context sensitive Help for this dialog box

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## Modify General Options Dialog Box

Use this dialog box to edit the general options fields. Changes you make here can be applied to all specs. Scroll down for field information and related topics.

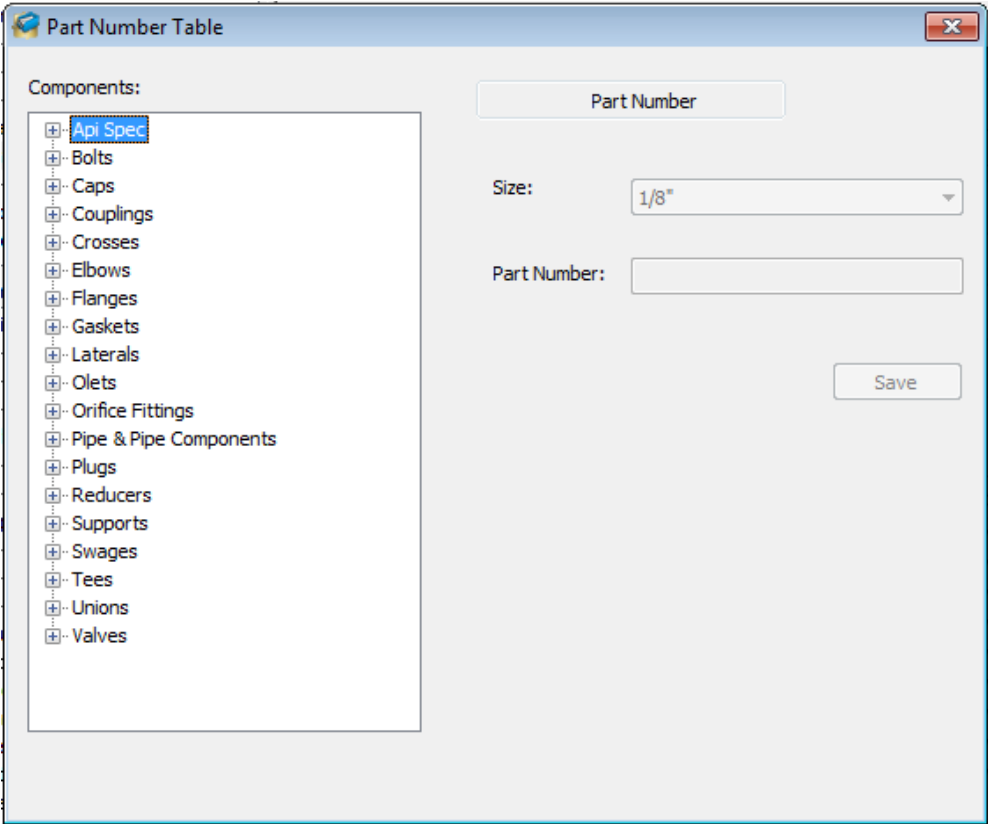
**Warning:** Deleting material file information may seriously affect existing drawing files. Never delete material file information unless you are aware of all possible implications.



In this field...	Enter/Do this...
Type	Select a category from the list. The items corresponding to the Types will display in the text box on the right.
Manufacturer	Select a category from the list. The items corresponding to the Manufacturer will display in the text box on the right.
Valve Tag	Select a category from the list. The items corresponding to the Valve Tag will display in the text box on the right.
Option Text	Enter the text that you want to add to any one of the option lists.
Add	Click the <b>Add</b> button where you want to add your option.
Remove	After selecting the item from the list, click the <b>Remove</b> button to remove the item.
OK	Click OK to exit the Modify Material Options dialog box. All changes are automatically saved at the time they are made. You cannot exit this dialog box without saving changes.
Help	Click to view context sensitive Help for this dialog box.

# Modify Part Number Dialog Box

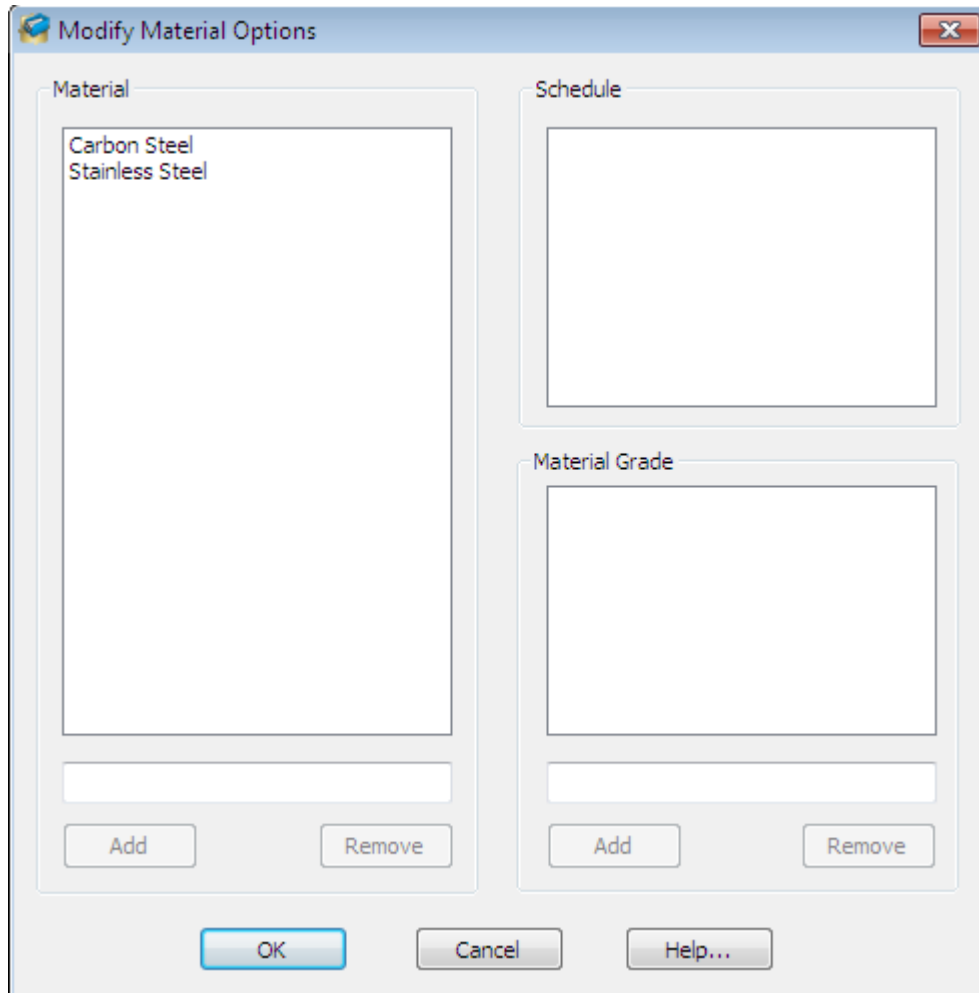
Use this dialog box to edit the Part Number Table. Changes you make here can be applied to all specs. Scroll down for field information and related topics.



In this field...	Enter/Do this...
Components	This will allow you to select the component group from the list.
Size	This will show you the sizes you can add a part number to. You will be able to use this table for all specs.
Part Number Text Option	Enter the text that you want to add to a specific component size.
Save	This will apply the part number to the specific component size.

## Modify Material Options Dialog Box

Use this dialog box to edit the Material Options. Changes you make here can be applied to all specs. Scroll down for field information and related topics.

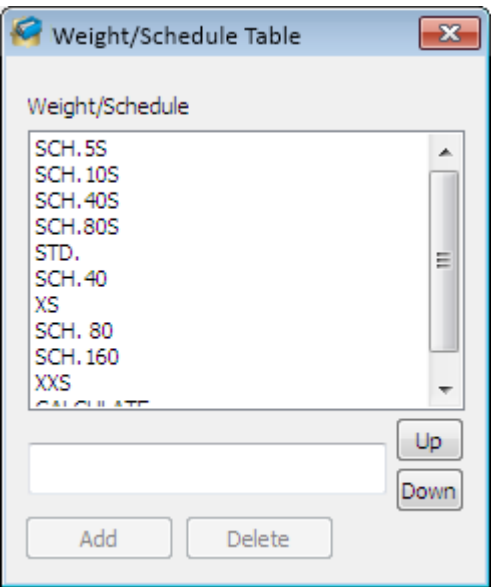


In this field...	Enter/Do this...
Material	This will list all existing materials that are available. You can add or remove materials from the list.
Material Grade	This will list all existing material grades that are available. You can select one or multiple material types to make changes.
Schedule	Enter the text that you want to add to the corresponding material group or material type.
Add	Click the <b>Add</b> button where you want to add your option. The add button in the material section will add to the material list. The add button in the material grade section will add to the material grade list.
Remove	After selecting the item from the list, click the <b>Remove</b>

	button to remove the item. The remove button in the material section will remove items from the material list. The remove button in the material grade list will remove items from the material grade list.
OK	Click <b>OK</b> to exit the <b>Material Options</b> dialog box. All changes are automatically saved at the time they are made. You cannot exit this dialog box without saving changes.
Cancel	Click to cancel the changes
Help	Click to view context sensitive Help for this dialog box

## Modify Weight/Schedule Dialog Box

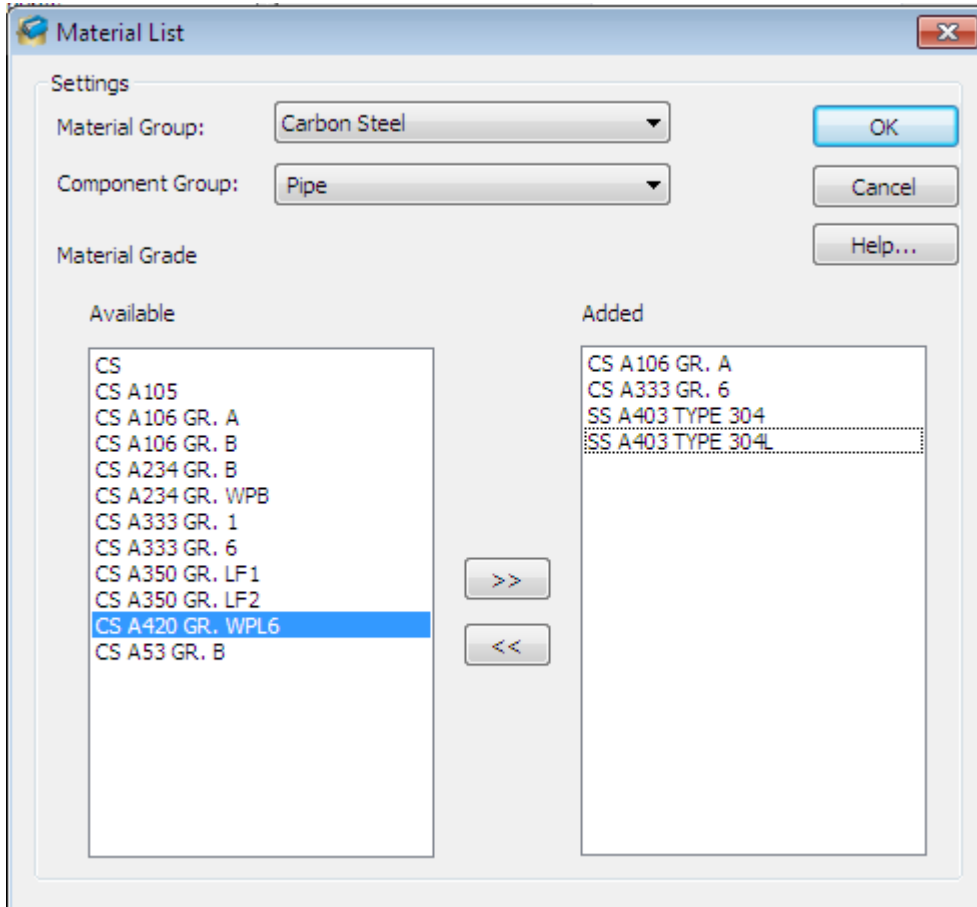
Use this dialog box to edit the weight and schedule. Changes you make here can be applied to all specs. Scroll down for field information and related topics.



In this field...	Enter/Do this...
Weight/Schedule List	This will list all existing schedule that are created.
Text Option	Enter the text that you want to add to the list.
Add	Click the <b>Add</b> button where you want to add your option.
Delete	After selecting the item from the list, click the <b>Delete</b> button to remove the item.
Up	Use the <b>up</b> button to move the schedule order up.
Down	Use the <b>down</b> button to move the schedule order down.

## Modify Material List Dialog Box

Use this dialog box to edit the Material List. Changes you make here can be applied to all specs. Scroll down for field information and related topics.



In this field...	Enter/Do this...
Material Group	List of material groups you can filter by
Component Group	List of component groups for you to add material grades to
Available Material Grade	The available material grades that you can add to a component group
Added Material Grade	List of material grades added to the selected component group
Right Arrow	Use the <b>Right</b> arrow to add the items into the added grades list
Left Arrow	Use the <b>Left</b> arrow to remove the items from the added grades list
OK	Click <b>OK</b> to exit the <b>Material List</b> dialog box. All changes are automatically saved at the time they are made. You cannot exit this dialog box without saving

	changes.
Cancel	Click to close the dialog box
Help	Click to view context sensitive Help for this dialog box

## Modify Diameter Inch Factor Dialog Box

Use this dialog box to edit the **Diameter Inch Factors**. Changes you make here can be applied to a specific spec. Scroll down for field information and related topics.

Diameter Inch Factors
Apply
Help...

Socket Weld:

Weldolet:

Elbowlet:

Thredolet/Sockolet:

Stub-in:

Stub-on:

Settings

Size	Material Factor	Wall Thickness ...	Operations Factor	Process Factor	Overhead
1/8"	1.0	1.0	1.0	1.0	1.0
1/4"	1.0	1.0	1.0	1.0	1.0
3/8"	1.0	1.0	1.0	1.0	1.0
1/2"	1.0	1.0	1.0	1.0	1.0
3/4"	1.0	1.0	1.0	1.0	1.0
1"	1.0	1.0	1.0	1.0	1.0
1 1/4"	1.0	1.0	1.0	1.0	1.0
1 1/2"	1.0	1.0	1.0	1.0	1.0
2"	1.0	1.0	1.0	1.0	1.0
2 1/2"	1.0	1.0	1.0	1.0	1.0
3"	1.0	1.0	1.0	1.0	1.0
3 1/2"	1.0	1.0	1.0	1.0	1.0
4"	1.0	1.0	1.0	1.0	1.0
5"	1.0	1.0	1.0	1.0	1.0
6"	1.0	1.0	1.0	1.0	1.0
8"	1.0	1.0	1.0	1.0	1.0
10"	1.0	1.0	1.0	1.0	1.0
12"	1.0	1.0	1.0	1.0	1.0
14"	1.0	1.0	1.0	1.0	1.0
16"	1.0	1.0	1.0	1.0	1.0



In this field...	Enter/Do this...
Socket Weld	Enter the factor for socket welded components
Weldolet	Enter the factor for weldolets
Elbowlet	Enter the factor for elbowlets
Thredolet/Sockolet	Enter the factor for thredolet/sockolet
Stub-in	Enter the factor for stub-in
Stub-on	Enter the factor for stub-on
Settings	This is a chart where you can enter the factors for other welded components. These factors include the wall thickness, operations factor, etc.
Apply	Click <b>Apply</b> to save the changes for <b>Diameter Inch Factors</b> .
Help	Click to view context sensitive Help for this dialog box

## General Parameters Dialog Box

### Piping Specifications

Use this dialog box to create or edit the Spec parameters file. Scroll down for field information and related topics.

General Parameters - Piping Specification

Service:  Code:

Material:  Weld Procedure:

Design Pressure:  Heat Treatment:

Operating Pressure:  Inspection:

Design Temperature:

Operating Temperature:

Corrosion Allowance:

Revision:  Revision Date:

C:\ProgramData\PROCAD\SpoolCAD V2\Specs\DS2D\_SPEC\_1 - A

<b>In this field...</b>	<b>Enter/Do this...</b>
Service	The type of service associated with this spec (optional field)
Material	The material associated with this spec
Design Pressure	The design pressure for the spec, <b>and</b> the associated units. <i>Note:</i> Units are not automatically applied to this field. (optional field)
Operating Pressure	The operating pressure for the spec, <b>and</b> the associated units. <i>Note:</i> Units are not automatically applied to this field. (optional field)
Design Temperature	The design temperature for the spec, <b>and</b> the associated units. <i>Note:</i> Units are not automatically applied to this field. (optional field)
Operating Temperature	The operating temperature for the spec, <b>and</b> the associated units. <i>Note:</i> Units are not automatically applied to this field. (optional field)
Corrosion Allowance	The corrosion allowance for the spec, and the associated units <i>Note:</i> Units are not automatically applied to this field. (optional field)
Revision	The revision number for this spec. For new specs, enter 1. (optional field)
Revision Date	The date the spec is created (optional field)
Code	The code for the spec (optional field)
Weld Procedure	The weld procedure for this spec (optional field)
Heat Treatment	Heat treatment for this spec (optional field)
Inspection	Inspection information for this spec (optional field)
Apply	Click to save current spec parameter information and close the dialog box (optional field)
Help	Click to view context sensitive Help for this dialog box (optional field)

## Welded / Flanged

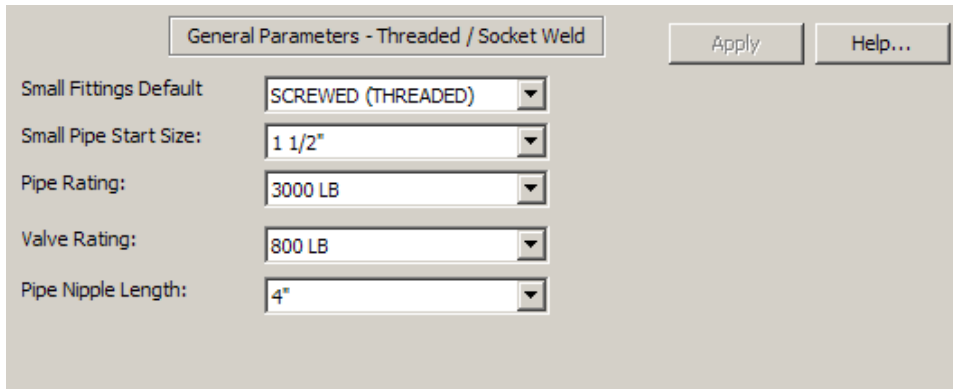
Use this dialog box to create or edit the Spec parameters file. Scroll down for field information and related topics.

In this field...	Do this...
ANSI Rating	Use the drop-down list to select the default rating of valves and flange <b>Note:</b> If required, this rating can be changed while drafting.
Flange Face	Use the drop-down list to select the default flange type <b>Note:</b> The system adds the valve face to the description of the valve before placing it in the drawing.
Bolt Type	Use the drop-down list to select the default bolt type
Gasket Thickness	Use the drop-down list to select the default gasket thickness <b>Note:</b> If you select <b>OTHER</b> , the system asks for gasket thickness each time a gasket is placed.
WOL/EOL Rating	Use the drop-down list to select the weldolet (WOL) or welded elbowlet (EOL) rating
Lap Joint Flange	Use the drop-down list to select the lap joint flange rating
Apply	Click to save current spec parameter information and close the dialog box

Help	Click to view context sensitive Help for this dialog box
Ball Valve Type	<p>Use the drop-down list to select the default type of ball valve</p> <p><b>Note:</b> If you select <b>ALL</b>, the system asks for type each time you place a ball valve.</p> <p><b>Note:</b> This setting applies to flanged and welded valves only. It does not affect screwed or socket weld valves.</p> <p><b>Note:</b> You can override the default selection during a drafting session.</p>
Ball Valve Descriptions	<p>Change the text that is appended to the ball valve's description for use in the Bill of Material.</p> <p>The default values are:</p> <ul style="list-style-type: none"> <li>▪ FP for full port ball valves</li> <li>▪ RP for reduced port ball valves</li> <li>▪ VENTURI for Venturi ball valves</li> </ul>
Plug Valve Type	<p>Use the drop-down list to select the default type of plug valve</p> <p><b>Note:</b> If you select <b>ALL</b>, the system asks for type each time you place a plug valve.</p> <p><b>Note:</b> This setting applies to flanged and welded valves only. It does not affect screwed or socket weld valves.</p> <p><b>Note:</b> You can override the default selection during a drafting session.</p>
Plug Valve Descriptions	<p>Change the text that is appended to the plug valve's description for use in the Bill of Material.</p> <p>The default values are:</p> <ul style="list-style-type: none"> <li>▪ REG PATTERN for regular pattern plug valves</li> <li>▪ SHORT PATTERN for short pattern plug valves</li> <li>▪ VENTURI PATTERN for Venturi pattern plug valves</li> </ul>
Check Valve Type	<p>Use the drop-down list to select the default type of check valve</p> <p><b>Note:</b> If you select <b>ALL</b>, the system asks for type each time you place a check valve.</p> <p><b>Note:</b> This setting applies to flanged and welded valves only. It does not affect screwed or socket weld valves.</p> <p><b>Note:</b> You can override the default selection during a drafting session.</p>
Check Valve Description	<p>Change the text that is appended to the check valve's description for use in the Bill of Material.</p> <p>The default values are:</p> <ul style="list-style-type: none"> <li>▪ PISTON for piston check valves</li> <li>▪ SWING for swing check valves</li> <li>▪ WAFER for wafer check valves</li> </ul>

## Threaded / Socket Weld

Use this dialog box to create or edit the Spec parameters file. Scroll down for field information and related topics.



In this field...	Do this...
Small Fittings Default Type.	Use the drop-down list to select the default type for <i>small</i> fittings and valves. When working with small pipe, the system will automatically place the type of fitting specified here. <b>Small is defined in the following field.</b> <b>Note:</b> You can override the default selection during a drafting session.
Small Pipe Start Size	Use the drop-down list to select the <i>small</i> pipe size Pipe sizes equal to or smaller than the size specified here are considered <i>small</i> . Default fittings and valves for small pipe are selected in the previous field. Default fittings and valves for pipe sizes larger than the size specified are selected on the Welded/Flanged dialog.
Pipe Rating	Use the drop-down list to the select pressure rating for pipe <b>Note:</b> You can override the default selection during a drafting session.
Valve Rating	use the drop-down list to select the pressure rating for valves <b>Note:</b> You can override the default selection during a drafting session.
Pipe Nipple Length	Use the drop-down list to select the default pipe nipple length <b>Note:</b> You can override the default selection during a drafting session.
Apply	Click to save current spec parameter information and close the dialog box
Help	Click to view context sensitive Help for this dialog box

# Wall Thickness Dialog Box

Use this dialog box to assign a default wall thickness to specified pipe sizes. Scroll down for field information and related topics.

Size	Wall Thickness
1/8"	XS
1/4"	XS
3/8"	XS
1/2"	XS
3/4"	XS
1"	XS
1 1/4"	XS
1 1/2"	XS
2"	STD.
2 1/2"	STD.
3"	STD.
3 1/2"	STD.
4"	STD.
5"	STD.
6"	STD.
8"	STD.
10"	STD.
12"	STD.
14"	STD.
16"	STD.

In this field...	Do this...
Size	Select a pipe size
Wall Thickness	Select the default thickness to apply to the selected pipe size
File Preview List	This is a list of all pipe sizes in the spec and the default wall thickness for each. You can add, delete or modify options in this list. To <b>add</b> an item, select a size and wall thickness, then click Add. To <b>delete</b> an item, click it, and then click Delete. To <b>edit</b> an item, click it. The size and thickness data for the selected item appear in the Size and Wall Thickness fields. Edit these fields as require, and then click <b>Add</b> .
Add	Click to add a new or edited size/wall thickness item to the File Preview list
Delete	Click to delete a selected item from the File Preview list
Apply	Click to close the dialog box without modifying the wall thickness data
Help	Click to view context sensitive Help for this dialog box

## Pipe Shoes Dialog Box

Use this dialog box to assign add pipe shoe information to your spec. You can add multiple shoe types with different information into the SPOOLCAD software.

In this field...	Do this...
Description	Enter the description of the Pipe Shoes
Shoe Tag	This is where you can enter the Shoe tag information
Type	You can use the drop down box to select the type
Material	You can use this option to select the material for the pipe shoe
Total Diameter Inch	You can enter the total diameter inch of weld for the shoe tag
Part Number	You can enter the part number for this component
Manufacturer	You can enter the manufacturer for this component

Destination	You can enter the destination for this component
Shoe Weight	You can enter the weight of the specific shoe
Settings	This will show all the shoes that have been added to this spec. It will also allow you to add and delete shoes
Add	Click <b>Add</b> to add the shoe with the provided information to the list of shoes available in the spec
Delete	Click <b>Delete</b> will remove the selected shoe from the spec
All	Click <b>All</b> will select all components in the spec
None	Click <b>None</b> will deselect any shoe components from the list of shoes added to the spec
Apply	Click <b>Apply</b> will apply the changes made to the spec
Help	Click <b>Help</b> will bring up the help file

## Edit Rating Display Dialog Box

Use this dialog box to define the appearance of ratings within the Spec Generator, and also for use within the Standards Manager.

Title	Format 1	Format 2	Format 3	Format 4	Format 5
150#	150#	150 lb	150 CL	CL 150	CLASS 150
300#	300#	300 lb	300 CL	CL 300	CLASS 300
400#	400#	400 lb	400 CL	CL 400	CLASS 400
600#	600#	600 lb	600 CL	CL 600	CLASS 600
800#	800#	800 lb	800 CL	CL 800	CLASS 800
900#	900#	900 lb	900 CL	CL 900	CLASS 900
1500#	1500#	1500 lb	1500 CL	CL 1500	CLASS 1500
2000#	2000#	2000 lb	2000 CL	CL 2000	CLASS 2000
2500#	2500#	2500 lb	2500 CL	CL 2500	CLASS 2500
3000#	3000#	3000 lb	3000 CL	CL 3000	CLASS 3000
4000#	4000#	4000 lb	4000 CL	CL 4000	CLASS 4000
5000#	5000#	5000 lb	5000 CL	CL 5000	CLASS 5000
6000#	6000#	6000 lb	6000 CL	CL 6000	CLASS 6000
7000#	7000#	7000 lb	7000 CL	CL 7000	CLASS 7000
8000#	8000#	8000 lb	8000 CL	CL 8000	CLASS 8000
9000#	9000#	9000 lb	9000 CL	CL 9000	CLASS 9000
10000#	10000#	10000 lb	10000 CL	CL 10000	CLASS 10000

In this field...	Do this...
Title	The display names of the different rating styles. These are displayed in the Display Units menu in the Spec Generator and in the Standards Manager.



Ratings	Set the appearance of the specific ratings for each of the five formats.
OK	Click OK to exit the Edit Rating dialog box. All changes are automatically saved at this time.
Cancel	Click to close the dialog box without saving the changes.

# Reference

## Material File Descriptions

Read this before you modify the component description for any item list below:

### All Flanged Valves

Do not add the type face of flange (Raised Face, Flat Face, or Ring Type Joint) to the valves description. The piping applications, such as PROCAD SPOOLCAD, automatically append the face of flange (RF, FF, or RTJ) to the end of description.

### Swages

Do not add the ends of Swage (such as Beveled Both Ends, Beveled Large End/Threaded Small End) to the swage description. The piping applications, such as PROCAD SPOOLCAD, automatically append the end types (BBE, BLE/TSE) to the end of description.

### Pipe Bends

Do not add the angle and diameter of bends to the Pipe Bend description. The piping applications, such as PROCAD SPOOLCAD, automatically append this information (such as 60 DEG - 5 DIA) to the end of description.

### Trimmed Elbows

Do not add the angle to the Trimmed Elbow description. The piping applications, such as PROCAD SPOOLCAD, automatically append this information (such as 60 DEG) to the end of description.

### Miter Elbows

Do not add the number of welds to the Miter Elbow description. The piping applications, such as PROCAD SPOOLCAD, automatically append this information (such as 2 WELD) to the end of description. The system prompts you for this information when placing a Miter Elbow.

### Transition Pieces

Do not add the inlet and outlet wall thickness to the Transition Piece description. The piping applications, such as PROCAD SPOOLCAD, automatically append this information (such as SCH.40/0.125") to the end of description. The system prompts you for this information when placing a Transition Piece.

### **Reinforcing Pads (Re-pad)**

Do not add the diameter to the Reinforcing Pad description. The piping applications, such as PROCAD SPOOLCAD, automatically append this information (such as 6" DIA) to the end of description. The system prompts you for this information when placing a Reinforcing Pad.

### **Reducing Couplings**

Do not add the outlet size to the Reducing Coupling description. The piping applications, such as PROCAD SPOOLCAD, automatically append this information (such as 1" X 1/2") to the size. The system prompts you for the outlet size when placing a Reducing Coupling.

### **Pipe Nipples**

Do not add the length and ends of Pipe Nipple to description. The piping applications, such as PROCAD SPOOLCAD, automatically append this information (such as 4"LG - TBE) to the end of description. The system prompts you for this information when placing a Pipe Nipple.

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