

SimpleSelect™ —
Siemens Valve Sizing and Selection Tool



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Installing SimpleSelect™

Software Requirements

- The program requires 500 MB of disc space.
- Requires Adobe Reader 9.3.4 or later. Once the SimpleSelect application is open, you can download the latest version of Adobe Reader by using the Downloads Menu on SimpleSelect's top tool bar.

Windows

- Intel® Pentium® III processor (Pentium 4 recommended)
- Microsoft® Windows® XP Home, Professional, or Tablet PC Edition with Service Pack 2 or 3, Windows Server® 2003, Windows Vista® Home Premium, Business, Ultimate, or Enterprise (including 64-bit editions) with Service Pack 1, or Windows 7
- 512MB of RAM (1GB recommended)

Macintosh

- Intel Core™ Duo or faster processor
- Mac OS X v10.4, v10.5 or v10.6
- 512MB of RAM (1GB recommended)

Linux

- Intel Pentium III processor (Pentium 4 recommended)
- Fedora Core 12, Ubuntu 9.10, or openSUSE® 11.2
- 1GB of RAM

Application Support

- For additional questions, please call Inside Sales Support at 888-593-7876, option 4.
- Hours are Monday through Friday, 7 am to 5:00 pm CST.

Installing onto a PC*

- From the Siemens HVAC Web site, www.usa.siemens.com/hvac, click on the SimpleSelect link to download the application.
- Click on the SimpleSelect file.
- Follow the on-screen instructions.

Installing onto a Macintosh®*

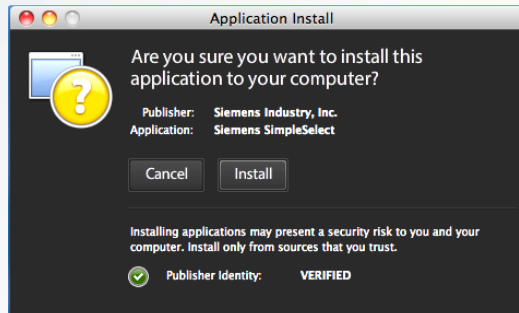
- From the Siemens HVAC Web site, www.usa.siemens.com/hvac, click on the SimpleSelect link to download the application.
- Click on the SimpleSelect file.
- Follow the on-screen instructions.
- Drag the Siemens SimpleSelect icon into the Applications folder.

**Note: You may need to download Adobe® AIR® to run the SimpleSelect application. Go to adobe.com/air for this free download.*

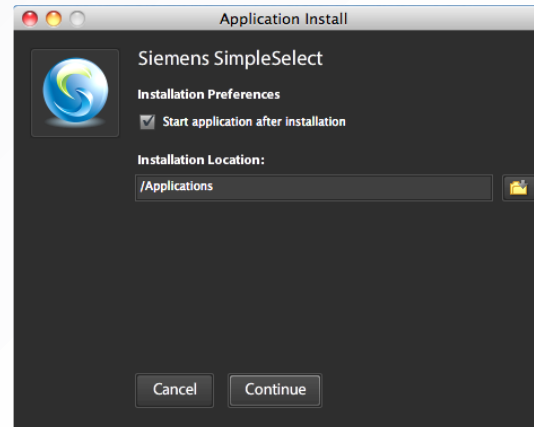


Installing SimpleSelect™

Click install when prompted:



Choose whether or not you want to start the application after installation.



Use the default installation location or browse for the desired location and click continue.



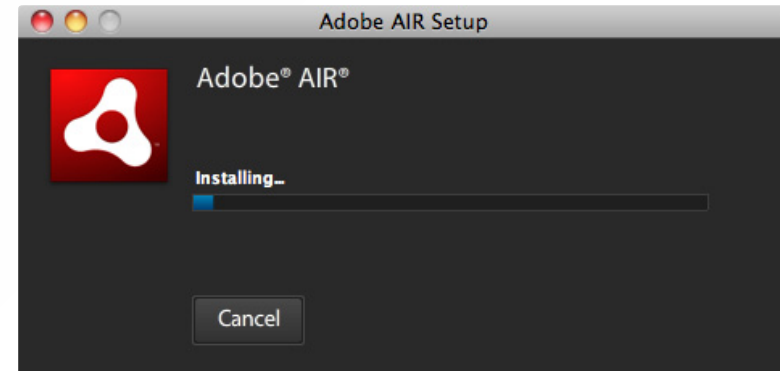
Only a license is granted for Siemens SimpleSelect, it is not sold. READ the End-User License Agreement carefully and to continue installing, click that you agree to the terms.



Installing SimpleSelect™

Application Updates

You will be prompted to install updates to the SimpleSelect application as they become available. You can choose to install these updates at that time or wait until later, such as the next time you launch the application.



Database Updates

You will be prompted to install the SimpleSelect database or PDF files of valve and actuator data sheets. You can choose to download these files at that moment or be reminded later—whichever is convenient for you.

Navigation tip: Once the data sheets are downloaded onto your desktop, you will be prompted when new or revised product specifications become available and asked if you want to update. This will ensure you are working from the most current technical specifications.



Key Features of SimpleSelect™

You are well on your way to enjoying the ease and simplicity of the Siemens Valve Sizing and Selection Tool, SimpleSelect, for all types of projects.

- 1 Select Valve Type Drop Down Menu
- 2 Selected Valve Types
- 3 Search by Part Number
- 4 Valve Parameters Window
- 5 Pressure Drop and Steam Calculators
- 6 Go to Actuator Parameters Window
- 7 Valves Data Grid
- 8 Show Tooltips
- 9 Customize Column Information
- 10 Data Sheet PDFs
- 11 Actuators Data Grid
- 12 Add Valve, Actuator, Assembly & Favorites Icons
- 13 Valve Schedule Grid
- 14 Sort column order in Valve Schedule
- 15 Valve Tagging
- 16 Customer Info
- 17 Multiplier
- 18 Exporting Options

The screenshot shows the SimpleSelect software interface with the following features highlighted by numbered callouts:

- 1**: Select Valve Type Drop Down Menu (File menu)
- 2**: Selected Valve Types (Ball, Butterfly, Globe, Magnetic, Zone)
- 3**: Search by Part Number (Search bar)
- 4**: Valve Parameters Window (Medium: Steam, Cv: 1.00, etc.)
- 5**: Pressure Drop and Steam Calculators (Pressure Drop: 5 psi, Quantity Of Steam: 1 lbf/hr)
- 6**: Go to Actuator Parameters Window (Go to Actuator Parameters button)
- 7**: Valves Data Grid (Table with columns: Part #, Type, Size, CV, Actual ΔP, Description, Port Config, Price, Data Sheet)
- 8**: Show Tooltips (Tooltips icon)
- 9**: Customize Column Information (Columns icon)
- 10**: Data Sheet PDFs (Data Sheet icon)
- 11**: Actuators Data Grid (Table with columns: Part #, Signal, Description, Close Off)
- 12**: Add Valve, Actuator, Assembly & Favorites Icons (Icons on the right sidebar)
- 13**: Valve Schedule Grid (Table with columns: Part Number, Qty, Tag, Valve Size, Cv, Port Config, Trim, Multiplier, Price, Description, Assem)
- 14**: Sort column order in Valve Schedule (Sort icon)
- 15**: Valve Tagging (Tag input field)
- 16**: Customer Info (Customer Info button)
- 17**: Multiplier (Multiplier: 1)
- 18**: Exporting Options (Export icons on the right sidebar)



Key Features of SimpleSelect™


Help

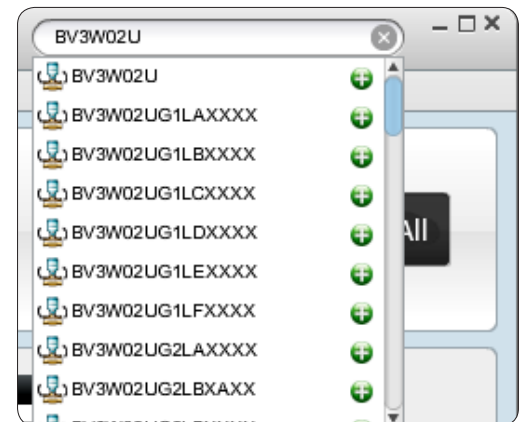
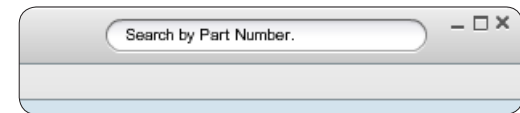
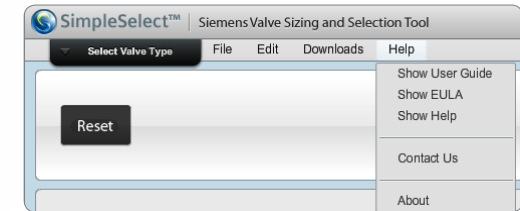
- Show User Guide – opens this User Guide in PDF format, which can be saved, emailed, or printed
- Show EULA – read the Siemens End User License Agreement
- Show Help – quick reference pop-up window shows how to navigate the SimpleSelect application and how to create a schedule
- About– displays the SimpleSelect software version downloaded on your computer for technical support reference
- Contact Us – for additional questions, please contact your territory manager or Inside Sales Support at 888-593-7876, option 4, Monday through Friday, 7 am to 5:00 pm CST.

Search by part number

If you already know the Siemens part number, or some of the part number sequence, type it in the top bar and a list will appear from which you can select. The more numbers you enter, the more refined the search.


Once your selected part number appears, you can hover your mouse over that item and the product details will appear.

 Click on the plus sign to add that number to your Valve Schedule or drag and drop the part number into the Favorites window. The Favorites window opens when you click on the star icon, found to the right of the Actuators data grid or under the Edit menu of the top tool bar. The Favorites window allows you to store a list of your most commonly ordered products, keeping it handy for future reference.



Key Features of SimpleSelect™

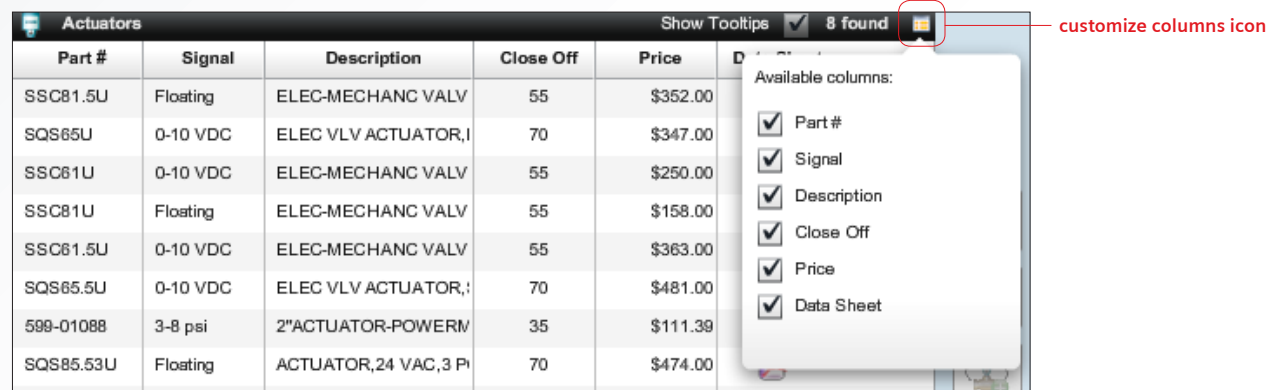
Changing the width of data grids and their columns

The overall width of Valves and Actuators data grids can be resized, as well as the columns within each grid, by hovering your mouse over the separating line. When the pointer becomes , drag the separator until the data grid or column is the width that you want.

Change the order of columns

The information in each data grid can be arranged according to your preference. This will allow you to select what will be displayed from all available attributes and in what order.

- Click on a column heading and drag it into place in the order that you prefer.
- Click on the Customize Columns icon to select and deselect the columns you want to display.



Part #	Signal	Description	Close Off	Price	Data Sheet
SSC81.5U	Floating	ELEC-MECHANC VALV	55	\$352.00	
SQS65U	0-10 VDC	ELEC VLV ACTUATOR,I	70	\$347.00	
SSC81U	0-10 VDC	ELEC-MECHANC VALV	55	\$250.00	
SSC81U	Floating	ELEC-MECHANC VALV	55	\$158.00	
SSC81.5U	0-10 VDC	ELEC-MECHANC VALV	55	\$363.00	
SQS65.5U	0-10 VDC	ELEC VLV ACTUATOR,I	70	\$481.00	
599-01088	3-8 psi	2"ACTUATOR-POWERM	35	\$111.39	
SQS85.53U	Floating	ACTUATOR,24 VAC,3 P	70	\$474.00	

Your column order preference settings will be saved and applied to your current schedule and to new schedules that you create.

- The attributes that are displayed in the Valve Schedule will also be displayed when the file is printed, exported to Excel, or saved as a PDF.
- Go to **Reset Columns**, under **Edit** along the top tool bar to restore columns to the original column order and width.



Key Features of SimpleSelect™

Sort the order of rows

- Click on the column heading to sort rows into ascending or descending order.

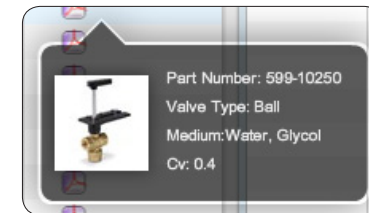
Part #	CV	Type	Description	Price ▲	Data Sheet
599-03020	2.5	Globe	1/2"NC.VLV,SS,250,2.5 CV,LIN.	\$386.57	
599-03128	2.5	Globe	1/2"NC.VLV,SS,250,2.5 CV,=%,WT	\$386.57	
599-03110	2.5	Globe	1/2"NO.VLV,SS,250,2.5 CV,=%,HC	\$386.57	
599-03127	1.6	Globe	1/2"NC.VLV,SS,250,1.6 CV,=%,WT	\$386.57	
599-03109	1.6	Globe	1/2"NO.VLV,SS,250,1.6 CV,=%,HC	\$386.57	
599-03019	1.6	Globe	1/2"NC.VLV,SS,250,1.6 CV,LIN.	\$386.57	
599-03001	1.6	Globe	1/2"NO.VLV,SS,250,1.6 CV,LIN.	\$386.57	
599-03002	2.5	Globe	1/2"NO.VLV,SS,250,2.5 CV,LIN.	\$386.57	
658-0051	2.5	Globe	1/2" P'TOP,3W,SEQUENCING2.5CV	\$433.00	
658-0050	1.5	Globe	1/2" P'TOP,3W,SEQUENCING1.5CV	\$433.00	
658-0052	2.5	Globe	1/2" P'TOP,3W,CHANGEOVER	\$433.00	
599-03056	2.5	Globe	1/2"NO.VLV,SS,250,2.5 CV,STEAM	\$446.53	
599-03073	1.6	Globe	1/2"NC.VLV,SS,250,1.6 CV,STEAM	\$446.53	
599-03055	1.6	Globe	1/2"NO.VLV,SS,250,1.6 CV,STEAM	\$446.53	
599-03074	2.5	Globe	1/2"NC.VLV,SS,250,2.5 CV,STEAM	\$446.53	

Show Tooltips Details

Click on the **Show Tooltips** box to hide or view key product attributes for each part number.



When you checkmark the Show Tooltips box, key product attributes will appear in a pop-up bubble as you move your mouse over each line item in the Valves and Actuators data grids.



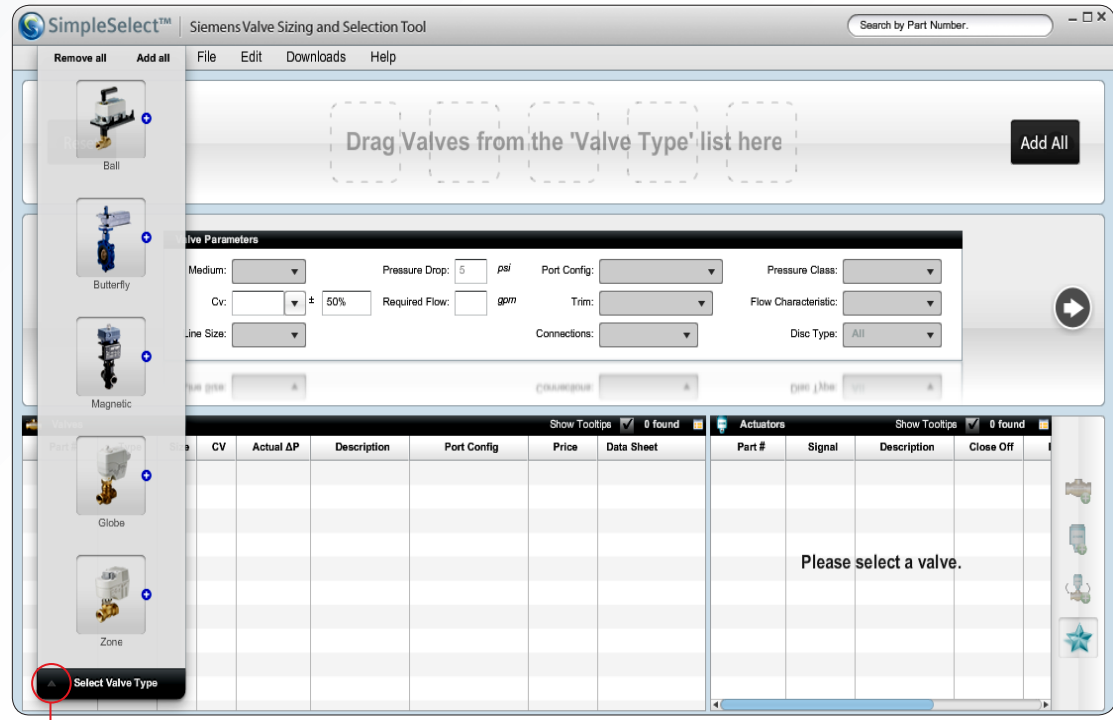
Sizing & Selection of Valves

To begin sizing and/or selecting valves, choose any or all valve types — Ball, Butterfly, Globe, Magnetic and Zone — from the Select Valve Type drop down menu. Click on any photo or drag-and-drop to move one or more valve types into the Selected Valve Type bar along the top of the tool window. All valve types can also be added or removed using the Reset, Add All or Remove All choices described below.

Reset (button) – clears the Valve Type selection(s) and resets the sizing and selection parameters to default settings.

Add All (button or Select Valve Type menu selection) – includes all valve types in the search by adding them to the Selected Valve Type bar.

Remove All (Select Valve Type menu selection) – clears the Selected Valve Type bar and places valve type icons back into the Select Valve Type menu.



Navigation tip: Click on the arrow bar to roll the valve menu window up or down.



Sizing and Selection of Valves

Valve Parameters Window

The Valve Parameters window has two main areas to help you determine the correct valve size and the selection criteria.

- The area to the left is sizing parameters: Medium, Cv, Line Size, Pressure Drop and Required Flow
- The area to the right is selection parameters: Port Configuration, Trim, Connections, Pressure Class, Flow Characteristic and Disc Type.

The screenshot shows the 'Valve Parameters' window with two main sections. The left section, labeled 'sizing parameters', includes: Medium (Water), Pressure Drop (5 psi), Cv (with a ± 50% tolerance), Required Flow (gpm), and Line Size (All). The right section, labeled 'selection parameters', includes: Port Config (All), Pressure Class (All), Trim (All), Flow Characteristic (All), Connections (All), and Disc Type (All). Below the window, there are labels 'sizing parameters' and 'selection parameters' with red lines pointing to their respective sections.



Valve Sizing Parameters

Sizing refers to identifying the correct Cv of the valve for the given application. Determining the correct Cv requires knowing the type of medium being controlled, the required flow of water/glycol, or amount and pressure of steam, and the differential pressure across the valve.

Medium

Select the type of medium the valve will control: Water, Glycol, or Steam. Depending on the medium selected the second column of sizing parameters will change.

If the medium is **Water**, the only parameters needed to size the valve are Pressure Drop and Required Flow.

- **Pressure Drop** – the differential pressure across the valve, or the difference in pressure between the inlet and outlet of the valve, typically at design conditions of the system. A general rule of thumb when the differential pressure is not known is to use 5 psi, which has been set as the default value, but can be changed if the actual or design pressure drop is known.
- **Required Flow** – typically, the design flow (in gpm) for the branch of the system, or coil, that the valve will control.

If **Glycol** is selected as the medium then an additional sizing parameter, Percent Glycol, appears.

- **Percent Glycol** indicates the percentage of glycol that is in the system. Typical values are between 25% and 50%. The default value is 50%, but can be changed to 25%, 30% or 40%.

Valve Parameters			
Medium:	<input type="text" value="Glycol"/>	Pressure Drop:	<input type="text" value="5"/> psi
Cv:	<input type="text" value="1.00"/> ± <input type="text" value="50%"/>	Required Flow:	<input type="text"/>
Line Size:	<input type="text" value="All"/>	Percent Glycol	<input type="text" value="50"/> %



Valve Sizing Parameters

If **Steam** is selected as the medium then the sizing information required is Pressure Drop, Quantity of Steam and Steam Supply Pressure and the Steam Calculators window will automatically pop up.

- **Pressure Drop** – for proportional control of steam, the lower of 80% of the difference between supply and return absolute pressure or the critical maximum pressure drop (basically half the supply pressure) is used as the pressure drop for sizing the valve.



Navigation Tip: When sizing for steam, the steam calculator is the most accurate method for determining the correct pressure drop. Absolute (psia) or gauge (psig) pressures can be entered.

- **Quantity of Steam** – this parameter is how much steam, in lbs/hr, that is required for the application. This can be entered directly or can be calculated.



Navigation Tip: You can use the calculator to determine the quantity of steam from BTU/hr or ΔT and CFM (of the air through the coil being controlled by the valve) if the lbs/hr is not known

- **Steam Supply Pressure** – this is the supply, or inlet, pressure of the steam. When using the steam calculator, if you enter the Supply Main Pressure, the tool will populate this parameter with the correct value in gauge pressure (psig).

The 'Valve Parameters' dialog box contains the following fields:

- Medium: **Steam** (dropdown menu)
- Pressure Drop: **psi**
- Cv: **1.00** (dropdown menu) ± **50%**
- Quantity Of Steam: **lbs/hr**
- Line Size: **All** (dropdown menu)
- Steam Supply Press: **psig**

The 'Calculators' dialog box has two tabs: 'Pressure Drop' and 'Steam Quantity'. The 'Steam Quantity' tab is active. It contains the following fields:

- Enter values in one of these two options:
- BTU/Hr**
- BTU/Hr: **0**
- ΔT and CFM**
- ΔT : **0**
- CFM: **0**
- Result:**
- Close** button



Valve Sizing Parameters

Cv (or Flow Coefficient)

If the desired Cv is known, it can be selected from the drop down menu. If Cv is not known, the tool will automatically calculate a Cv as additional sizing parameter data is entered.

Line Size

If the required/desired line size is known it can be selected from the drop down menu. Only line sizes available for the selected valve types will be shown.

Navigation Tip: The field to the right of the Cv field allows you to select the Cv range that the tool will use to filter and display matching valves in the Valve Data window. It can be set from 0-999% of the selected or calculated Cv.

The default value is 50%.

Valve Parameters

Medium: ▼

Cv: ▼ ±

Line Size: ▼

Pressure Drop: psi

Quantity Of Steam: lbs/hr

Steam Supply Press: psig



Valve Selection Parameters

Selection is more about the performance or application attributes of the valve than the size. Choosing specific selection parameters from the drop down menus will narrow the choice of valves.

- Additional parameters can be selected in the Valve Selection area to limit selections.
- More information provided will help filter out non-applicable valves and yield a more targeted selection.

Valve Parameters

Medium: **Water** Pressure Drop: **5** *psi* Port Config: **2 Way Both** Pressure Class: **All**

Cv: **1.60** ± **50%** Required Flow: *gpm* Trim: **Stainless Steel** Flow Characteristic: **All**

Line Size: **All** Connections: **FxF** Disc Type: **All**

- Only product attribute choices that apply to the selected valve types will be shown in the parameter drop down menus.
- As parameters are selected, only valves that match the selected parameters will be displayed in the Valves data grid.

Valves									Show Tooltips	27 found
Part #	Type	Size	CV	Actual ΔP	Description	Port Config	Price ▲	Data Sheet		
599-10302S	Ball	0.5	1	0	0.5" 2W 1CV SS BALL V	2 Way	\$122.00			
599-10303S	Ball	0.5	1.6	0	0.5" 2W 1.6CV SS BALL	2 Way	\$122.00			
599-02019B	Globe	0.5	1	0	2WNC, 3-8 SS, OR, FxF	2 Way Normally Closed	\$140.08			
599-02051A	Globe	0.5	1	0	2WNO, 10-15, SS, OR FxF	2 Way Normally Open	\$140.08			
599-02021B	Globe	0.5	1.6	0	2WNC, 3-8 SS, OR, FxF	2 Way Normally Closed	\$140.08			
599-02053A	Globe	0.5	1.6	0	2WNO, 10-15, SS, OR FxF	2 Way Normally Open	\$140.08			



Valve Selection Parameters

Use the Valve Parameters area to enter as much information about the application as possible.

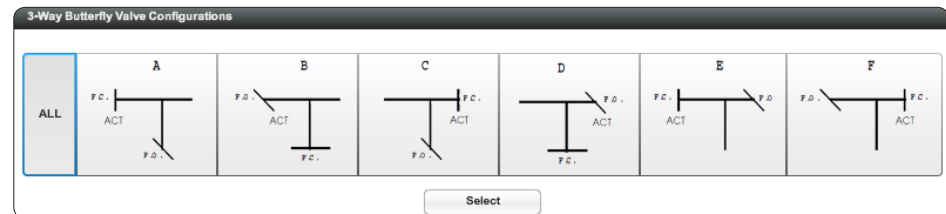
Port Config

This refers to the type of valve (2-way or 3-way) and the action (normally open or normally closed for 2-way and mixing or diverting for 3-way).

The plus sign (+) to the right of Port Config only appears when butterfly valves are selected as a valve type. The diagrams below are displayed when the plus sign (+) is clicked, showing the various configurations that are available for 3-way butterfly valve assemblies:

The following descriptions will help you understand the diagrams:

- ACT = Actuator, indicating the position of the actuator on the butterfly valve assembly
- F.C. = Fail Closed
- F.O. = Fail Open
- Perpendicular line at the end of one segment of the "T" = corresponds to F.C. – Fail Closed
- Diagonal line at the end of one segment of the "T" = corresponds to F.O. – Fail Open



You can select any one of the configurations, A-F, by clicking on it and then clicking on the select button to close the window and continue. The default for this configuration parameter is "ALL" which will result in all available configuration part numbers being displayed in the Actuator data grid.



Valve Selection Parameters

Trim

Choose from Plated Brass, Stainless Steel and Brass/Bronze.

Connections

This refers to the pipe connections of the valve. The following are all the possible choices for all valve types:

- NPT = Female x Female NPT
- Flanged = Bolt flanges
- AFxUM = Angle Female x Union Male
- Flared = SAE flared
- FxF = Female x Female NPT
- FxUF = Female x Union Female
- NPT Flange = Flange kit with NPT threaded connection
- UFxUF = Union Female x Union Female
- Weld Flange = Flange kit with weld neck connection
- Lug = valve body has lugs that are drilled and tapped for isolation and removal of downstream piping at full rated pressure
- Wafer = designed to be secured between two pipe flanges
- Sweat = solder (also known as sweat) connection

Pressure Class

Refers to the burst pressure class of the valve. Choices are ANSI 125, ANSI 250 and 600WOG (for ball valves only).

Flow Characteristic

Refers to the flow characteristic through the valve versus stroke. Choices are Equal %, Linear, or Linear & Equal % (selectable on magnetic valves only).

Disc Type

This parameter only applies to butterfly valves. The choices are full cut and under cut. Full cut discs provide higher close-off pressures, but also require more torque.



Valve Search Results

As you enter information into the Valve Parameters window, a list of the valves that match your query will appear in the Valves data grid. The number of valves found will temporarily flash in the Valve data grid as well as remain on display in the right corner of the Valve data grid header. As you change parameters, the results update automatically.

Valves										Show Tooltips	40 found
Part #	Type	Size	CV	Actual ΔP	Description	Port Config ▲	Price	Data Sheet			
599-03193	Globe	0.75	6.3	0	3/4"NC.VLV.BZ,250,6.3	2 Way Normally Closed	\$647.88				
599-03085	Globe	0.75	6.3	0	3/4"NC,UNION,SS,250,	2 Way Normally Closed	\$1,210.66				
599-03247	Globe	0.75	6.3	0	3/4"NC,VLV,SS,250,6.3	2 Way Normally Closed	\$1,210.66				
599-03139	Globe	0.75	6.3	0	3/4"NC,VLV,SS,250,6.3	2 Way Normally Closed	\$1,090.74				
599-03265	Globe	0.75	6.3	0	3/4"NC,VLV,SS,250,6.3	2 Way Normally Closed	\$1,090.74				
599-02027B	Globe	0.75	6.3	0	2WNC,3-8 SS,OR,FXF	2 Way Normally Closed	\$364.00				
599-02027C	Globe	0.75	6.3	0	2WNC,8-13 SS,OR,FXF	2 Way Normally Closed	\$364.00				
599-03283	Globe	0.75	6.3	0	3/4"NC,VLV,BZ,250,6.3	2 Way Normally Closed	\$647.88				
599-02027	Globe	0.75	6.3	0	3/4"NC,VLV,6.3 CV,SS,	2 Way Normally Closed	\$364.00				
599-02028B	Globe	0.75	6.3	0	2WNC,3-8 SS,OR,FXU	2 Way Normally Closed	\$420.24				

NOTE: Actual ΔP in the Valve data grid is the actual pressure drop for the valve based on the Required Flow, if any, entered by the user. If Required Flow is not entered the Actual ΔP will be zero.



Actuator Selection Parameters

Actuator parameters can be selected any time during the sizing and selection process.

- As a valve in the Valves data grid is selected, available actuators for that valve will display in the Actuators data grid on the right.
- Click on the Go to Actuator Parameters arrow to refine your actuator search.

The screenshot shows the SimpleSelect software interface. At the top, there's a search bar for 'Part Number'. Below it is a 'Select Valve Type' dropdown menu. The main area features a 'Reset' button, a 'Zone' icon with a minus sign, and an 'Add All' button. The 'Valve Parameters' section is highlighted with a red circle and contains the following fields:

- Medium: Water
- Pressure Drop: 5 psi
- Port Config: All
- Pressure Class: All
- Cv: ± 50%
- Required Flow: gpm
- Trim: All
- Flow Characteristic: All
- Line Size: All
- Connections: All
- Disc Type: All

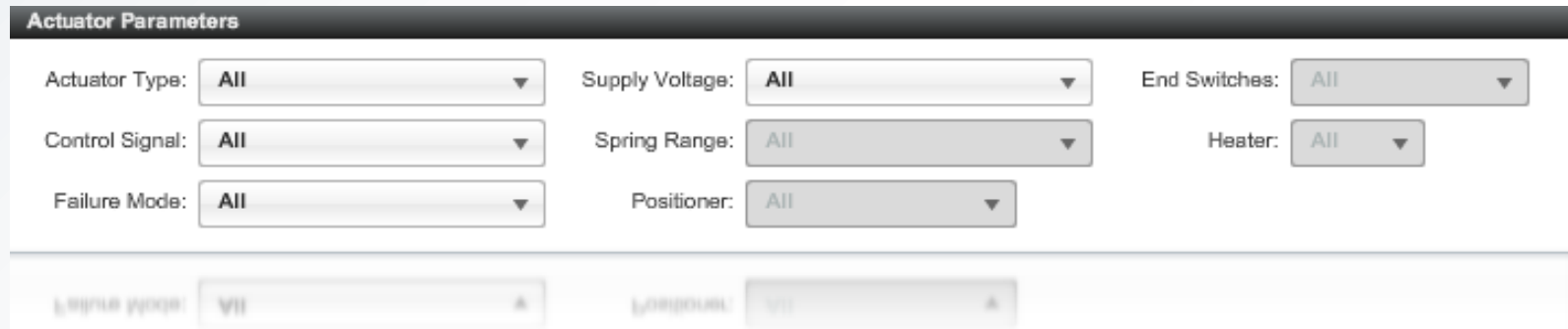
At the bottom, there are two data grids: 'Valves' and 'Actuators'. The 'Valves' grid shows 20 found items, and the 'Actuators' grid shows 9 found items. A red circle highlights a 'Go to Actuator Parameters' button with a right-pointing arrow.

Valves									Actuators			
Part #	Type	Size	CV	Actual ΔP	Description	Port Config	Price	Data Sheet	Part #	Signal	Description	Close Off
599-00510	Zone	0.5	1	N/A	1/2", 2W SWT, CV 1.0	2 Way	\$48.65		SSP61U	0-10 VDC	24V, 0-10V, NO, NS	44
599-00210	Zone	0.5	1	N/A	1/2", 2W, NPT, CV 1.0	2 Way	\$48.65		SFP11U	On/Off	ZONE VLV ACT.NO	44



Actuator Selection Parameters

The number of actuators can be further narrowed by selecting specific choices from the following Actuator Parameters displayed in the Actuator Parameters window.



The screenshot shows a window titled "Actuator Parameters" with a dark header. Below the header, there are several dropdown menus arranged in a grid. The first row contains "Actuator Type: All", "Supply Voltage: All", and "End Switches: All". The second row contains "Control Signal: All", "Spring Range: All", and "Heater: All". The third row contains "Failure Mode: All" and "Positioner: All". Below these, there are two more dropdown menus, one for "Air Supply Range" and one for "Spring Range", both currently set to "All".

Actuator Type – Select for electric or pneumatic operation

Control Signal – Choices are 0-10V/2-10V, 4-20mA, On/Off, Floating, On/Off/Floating, 0-10V/4-20mA

Failure Mode – Identifies how the actuator responds when supply power is lost. Choices are Spring Return, which fails to the “normal” position, or Non-Spring Return, which fails in place.

Supply Voltage – This is for the supply voltage of electric actuators. Choices are 24V (applies to electric actuators for all valve types), 120V, and 24-240 VAC/DC which is for butterfly valves only.

Air Supply/Spring Range – This parameter applies only to pneumatic actuators. It refers to the Air Supply Range for butterfly valves and Spring Range for globe valve pneumatic actuators. There are three options for butterfly valve Air Supply Range: 20 psi STD, 60 psi High Pressure, and 60 psi Double Acting. There are a variety of spring ranges to choose from for globe valves.

Positioner – This parameter only applies to pneumatic actuators for both globe valves and butterfly valves. For globe valves the choices are None or Standard positioner. For butterfly valves the choices are Pneumatic positioner, E/P Valve 24V positioner and E/P Valve 120V positioner.

End Switches – Butterfly valve parameter only. Choices are for end (limit) switches on Pneumatic actuators or Electric actuators or Potentiometer plus end (limit) switches with G3 or G6 type electric actuators.







Heater – Butterfly valve parameter only. Available with EM, EP and E2 actuators.



Actuator Search Results

Actuator search results will display based on the information you enter into the Actuator Parameters window and the type of valve selected in the Valves data grid. If you change valve or actuator parameters, the results update automatically.

Click on a valve row in the Valve data grid and begin to refine your search by filling in the fields in the Actuator Parameters window. Actuators that match both your query and the type of valve selected in the Valve data grid will appear in the Actuators data grid. The number of actuators found will temporarily flash in the Actuators data grid as well as remain on display in the right corner of the Actuator data grid header. As you change parameters, the results update automatically.

Actuators Show Tooltips <input checked="" type="checkbox"/> 6 found					
Part #	Signal	Description	Close Off	Price	Data Sheet
SQS65U	0-10 VDC	ELEC VLV ACTUATOR,I	160	\$694.00	
SSC61U	0-10 VDC	ELEC-MECHANC VALV	120	\$500.00	
SSC81U	Floating	ELEC-MECHANC VALV	120	\$316.00	
SSC61.5U	0-10 VDC	ELEC-MECHANC VALV	120	\$726.00	
SQS65.5U	0-10 VDC	ELEC VLV ACTUATOR,:	160	\$962.00	
SQS85.53U	Floating	ACTUATOR,24 VAC,3 P	160	\$948.00	

NOTE: The close-off column in the Actuator Data Window displays the close-off pressure, in psi, of the selected valve when combined with the given actuator. If additional information is needed for the actuator types, select the Data Sheet and the actuator .pdf will be displayed.



Building a Valve Schedule

Adding Items to the Valve Schedule

Building, or adding items to the Valve Schedule can be done in either of the following ways:

- Using the icons located to the right of the Actuator data grid



- Dragging and dropping items, one at a time, from the Search by Part Number bar, the Valves and Actuators data grids, or the Favorites pop-up window
- Select and drag one or multiple rows into the Valve Schedule with your mouse

Add to Schedule Icons

When you highlight items in the Valves or Actuators data grids, the icons to the right of the Actuators data grid become activated. Clicking on these icons adds that highlighted part number to the valve schedule.

Valves										Actuators					
Part #	Type	Size	CV	Actual ΔP	Description	Port Config	Price	Data Sheet		Part #	Signal	Description	Close Off	Price	Data Sheet
599-03193	Globe	0.75	6.3	0	3/4"NC.VLV.BZ,250,6.3	2 Way Normally Closed	\$647.88			SKD62U	0-10VDC & 4-	SKD62UYD ACT,24VAC	250	\$2,620.76	
599-03085	Globe	0.75	6.3	0	3/4"NC,UNION,SS,250,	2 Way Normally Closed	\$1,210.66								
599-03247	Globe	0.75	6.3	0	3/4"NC,VLV,SS,250,6.3	2 Way Normally Closed	\$1,210.66								
599-03139	Globe	0.75	6.3	0	3/4"NC,VLV,SS,250,6.3	2 Way Normally Closed	\$1,090.74								
599-03265	Globe	0.75	6.3	0	3/4"NC,VLV,SS,250,6.3	2 Way Normally Closed	\$1,090.74								
599-02027B	Globe	0.75	6.3	0	2WNC,3-8 SS,OR,FXF	2 Way Normally Closed	\$364.00								
599-02027C	Globe	0.75	6.3	0	2WNC,8-13 SS,OR,FXF	2 Way Normally Closed	\$364.00								
599-03283	Globe	0.75	6.3	0	3/4"NC,VLV,BZ,250,6.3	2 Way Normally Closed	\$647.88								
599-02027	Globe	0.75	6.3	0	3/4"NC,VLV,6.3 CV,SS,	2 Way Normally Closed	\$364.00								
599-02028B	Globe	0.75	6.3	0	2WNC,3-8 SS,OR,FXUM	2 Way Normally Closed	\$420.24								



Building a Valve Schedule



- **Add selected valve to schedule** – when one or more valves are selected in the Valves data grid, this icon become active (colored). Clicking on this icon adds the selected valve(s) to the Valve Schedule.



- **Add selected actuator to schedule** – when one or more actuators are selected in the Actuators data grid, this icon become active (colored). Clicking on this icon adds the selected actuator(s) to the Valve Schedule.



- **Add selected assembly to schedule** – when only one valve and only one actuator are selected in their respective data grids, this icon becomes active (colored). Clicking on this icon adds the part number for the combination (assembly) of the selected valve and actuator to the Valve Schedule.



- **Show Favorites window** – clicking on this icon opens the Favorites window. Items can be added to the Favorites window by dragging-and-dropping an item from the Valves data grid, Actuator data grids or Valve Schedule into the Favorites window. You can also open the My Favorites Window by clicking on the Edits drop-down menu along the top tool bar.


Navigation Tip: Valves and actuators can be added to the Favorites pop-up window from their respective data grids. Items in the Valve Schedule can also be added to the Favorites pop-up window, and vice versa, items from the Favorites pop-up window can be added to the Valve Schedule. Dragging and dropping is the only way to add items to the Favorites window and the only way to add items from Favorites to the Valve Schedule.



Building a Valve Schedule

Valve and Actuator Selection Exceptions

- Butterfly valves are only available as assemblies even though a valve part number and actuator part number show up in their respective data grids. A butterfly valve AND actuator must be selected and can only be added using the **Add selected assembly to schedule** icon.
- Magnetic valves are only available as assemblies. These items only show up in the Valve data grid. No actuators will show up in the Actuator data grid. Add to Valve Schedule by either clicking on the **Add selected valve to schedule** icon or drag and drop the item from the Valve data grid into the Valve Schedule.
- 656 Series and 658 Series pneumatic globe valves are only available as assemblies. These items only show up in the Valve data grid. No actuators will show up in the Actuator data grid. Add to Valve Schedule by either clicking on the **Add selected valve to schedule** icon or drag and drop the item from the Valve data grid into the Valve Schedule.

Reset

Add All

Valve Parameters

Medium: Glycol Pressure Drop: 5 psi Port Config: All Pressure Class: All

CV: 50% Required Flow: gpm Trim: All Flow Characteristic: All

Line Size: 1/2 Percent Glycol: % Connections: All Disc Type: All

Valves								Actuators						
Part #	Type	Size	CV	Actual ΔP	Description	Port Config	Price	Data Sheet	Part #	Signal	Description	Close Off	Price	Data Sheet
MXG481.15-3	Magnetic	0.5	3.5	0	MAGNETIC VALVE, 1/2"	2 & 3 Way Mixing	\$1,644.41							
MXG481.15-1	Magnetic	0.5	1.8	0	MAGNETIC VALVE, 1/2"	2 & 3 Way Mixing	\$1,644.41							
MXG481.15-0	Magnetic	0.5	0.7	0	MAGNETIC VALVE, 1/2"	2 & 3 Way Mixing	\$1,644.41							
MXG481B15-1	Magnetic	0.5	1.8	0	MAG VLV, 1/2", CV 1.8, RE	2 & 3 Way Mixing	\$2,746.15							
MXG481B15-3	Magnetic	0.5	3.5	0	MAG VLV, 1/2", CV 3.5, RE	2 & 3 Way Mixing	\$2,746.15							
No Actuators Found.														



Customizing a Valve Schedule

Selected valves, actuators and assemblies are displayed in the Valve Schedule data grid. Just like the Valve and Actuator data grids in SimpleSelect, you can select and customize the arrangement of columns and ascending/descending order of rows based on the data required for the project.

Valve Schedule											Customer Info	Remove Selected	Remove All	Multiplier: 1
Part Number	Qty	Tag	Valve Size	Cv	Port Config	Trim	Multiplier	Price	Description	Assembly Data Sheet	Pressure Class	Medium	Flow Char	Calculated CV
244-00511	6						1	\$1,126.20						0.00
244-00511	1		0.5	2.5	2 Way	Brass	1	\$187.70	1/2" 24V 2W SWT,CV2.5,3P VLV		125	Water, Glycol	Linear	0.00
244-00511	1		0.5	2.5	2 Way	Brass	1	\$187.70	1/2" 24V 2W SWT,CV2.5,3P VLV		125	Water, Glycol	Linear	0.00
244-00511	1		0.5	2.5	2 Way	Brass	1	\$187.70	1/2" 24V 2W SWT,CV2.5,3P VLV		125	Water, Glycol	Linear	0.00
244-00511	1		0.5	2.5	2 Way	Brass	1	\$187.70	1/2" 24V 2W SWT,CV2.5,3P VLV		125	Water, Glycol	Linear	0.00
244-00511	1		0.5	2.5	2 Way	Brass	1	\$187.70	1/2" 24V 2W SWT,CV2.5,3P VLV		125	Water, Glycol	Linear	0.00
244-00511	1		0.5	2.5	2 Way	Brass	1	\$187.70	1/2" 24V 2W SWT,CV2.5,3P VLV		125	Water, Glycol	Linear	0.00
248-00530	6						1	\$1,743.60						0.00
247-00512	4						1	\$669.76						0.00

Customer Info

Enter customer and project information in this pop-up window. This information will be included on PDF valve schedule exports.

Remove Selected

Click this button to delete highlighted items from the Valve Schedule.

Remove All

Click this button to clear all items from the Valve Schedule.

Multiplier

The multiplier field in the header bar of the Valve Schedule applies your multiplier globally to all three data grids. The multiplier for individual items in the schedule can be modified line by line. To do this, type the multiplier of that individual line item directly in the multiplier column for that line.

Customer Info

Project Details:

Name:

Address:

City:

State:

Zip:

Phone:

Remove All		Multiplier: 1
Multiplier	Price	
1	\$1,126.20	
1	\$187.70	
1	\$187.70	
1	\$187.70	
1	\$187.70	
1	\$187.70	
1	\$1,743.60	
1	\$669.76	



Customizing a Valve Schedule

Arrange columns


















- Click on the Customize Columns box in the header of the Valve Schedule to select what you want to be displayed from the drop down list of available columns.
- Click on a column heading and drag it into place in the order that you prefer. Your column order preference settings will be saved and applied to new schedules that you create.
- The columns that are displayed in the Valve Schedule grid will also be displayed when the file is printed, exported to Excel, or saved as a PDF.
- Go to Reset Columns, under the Edit menu along the top tool bar to restore columns to the original column order and width.

By clicking anywhere on a column header, you set it to sort by that column.

When you hover your mouse over a column header, a number and arrow that indicates its sort direction appears on the right. If you currently are sorting by that column, clicking the arrow will toggle the sort direction. When you have already sorted one column, hover your mouse over another column header and you will see "1" and an arrow displayed on the right. This indicates that you will be changing the first sort column. If you click on this column. However, If you mouse over the number it will increment. Clicking on the number will add this column as the next level sort. You can have up to nine levels of sorting.

Expand or collapse rows

Expand or collapse part number quantities greater than one by clicking on the ► or ▼ triangle in the Part Number cell. This allows you to adjust the tagging, multiplier, gpm, and notes at a line item level.

Valve Schedule													
Part Number	2 ▲	Qty	Tag	Valve Size	1 ▼	Cv	3 ▲	Port Config	Trim	1 ▲	Description	Required ΔP	Assembly Data Sheet
▼	244-00511	6										5	
	 244-00511	1		0.5		2.5		2 Way	Brass		1/2" 24V 2W SWT,CV2.5,3P VLV	5	
	 244-00511	1		0.5		2.5		2 Way	Brass		1/2" 24V 2W SWT,CV2.5,3P VLV	5	
	 244-00511	1		0.5		2.5		2 Way	Brass		1/2" 24V 2W SWT,CV2.5,3P VLV	5	
	 244-00511	1		0.5		2.5		2 Way	Brass		1/2" 24V 2W SWT,CV2.5,3P VLV	5	
	 244-00511	1		0.5		2.5		2 Way	Brass		1/2" 24V 2W SWT,CV2.5,3P VLV	5	
	 244-00511	1		0.5		2.5		2 Way	Brass		1/2" 24V 2W SWT,CV2.5,3P VLV	5	
►	 247-00512	4										5	
►	 248-00530	6										5	



Customizing a Valve Schedule

Part Number – This is the Siemens ordering number

Quantity – To order more than one item, type in the quantity needed in the Qty column. You can also click the icons found on the right side of the Actuator data grid multiple times to add the quantity needed.

Complimentary Valve Tagging – Click in the cell to type in instructions.

There are two ways to tag more than one valve or valve actuator in the schedule.

1. You can add several of the same items and tag them individually. To do this, enter the quantity desired in the Quantity field and click on the expand arrow. Each item is individually listed for specific tag details.
2. You can also add the same tag to multiple items. First, tag an item with the desired text. Now add the number of items in the quantity field. Expand the rows by clicking on the arrow by the part number and you'll see the individual tag information for each item.

Calculated Cv – This is the Cv calculated from pressure drop and required flow entered by the user.

Required ΔP – This the pressure drop the user entered, if any, in the sizing parameter

Actual ΔP – This is the actual pressure drop for the valve based on the required flow, if any, entered by the user.

Data Sheets – A pop-up menu displays available PDF files of valve, actuator, or assembly submittal sheets, technical instructions and installation instructions.

Notes – Type in any notes that you would like to include with your Valve Schedule in this field. Your entered notes will be displayed when the file is printed, exported to Excel, or saved as a PDF.

Valve Schedule	
Part Number	Qty
▶ 599-00211	12
▶ SFA71U	

Valve Schedule				
Part Number	Qty	Tag	Valve Size	Cv
▼ 599-00211	12			
▶ 599-00211	1		0.5	2.5
▶ 599-00211	1		0.5	2.5
▶ 599-00211	1		0.5	2.5
▶ 599-00211	1		0.5	2.5
▶ 599-00211	1		0.5	2.5
▶ 599-00211	1		0.5	2.5
▶ 599-00211	1		0.5	2.5

Assembly Data Sheet	Pressure Class	Medium
▶ Submittal Sheets	154-034_pdf	Glycol
▶ Technical Instructions		Water, Glycol
▶ Installation Instructions		Water, Glycol
▶	125	Water, Glycol
▶	125	Water, Glycol
▶	125	Water, Glycol
▶		
▶		



Saving and Exporting Your Valve Schedule

Here is your new valve schedule!

You can save this file for later use with the SimpleSelect tool or export it into an excel spreadsheet, PDF, or CSV file to upload in the Siemens Online Ordering Web shop.

- The Excel and PDF formats will save the information in the same order as it is organized on the screen. The way in which the columns are organized and sorted within the tool is how they will appear when they are exported, saved, or printed.



Export valve schedule to Excel – used to export data from SimpleSelect into an Excel formatted file.

Export valve schedule to PDF — when this is selected, the pdf will appear.

Create file for Webshop — The shopping cart icon will create and format a .csv file suitable for uploading into the Siemens Webshop.

Save schedule — The disc icon saves the Valve Schedule in a SimpleSelect formatted file. You can also save the valve schedule using the Save or Save as commands from the File drop down menu along the top tool bar.





Congratulations!

You are well on your way to enjoying the ease and simplicity of the Siemens Valve Sizing and Selection Tool, SimpleSelect, for all types of projects.

We hope you find this an invaluable tool that will help you create valve schedules, share or collaborate on projects, and place orders conveniently through Siemens Online Ordering.

Size, Select, Schedule. Simplify time-consuming work with SimpleSelect
For additional questions, please call Inside Sales Support at 888-593-7876, option 4., Monday through Friday, 7 am to 5:00 pm CST.