

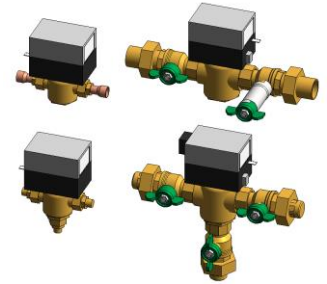
Z-one™ Motorized Zone Valves

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Z4, Z5, Z6 Series

Revit Content Instructions Guide

Manufacturer & Product:	Caleffi Z-One Zone Valves <i>Valve-Zone_Assembly-Caleffi-Z_One-2_Way_Normally_Closed.rfa</i>
Files:	<i>Valve-Zone_Assembly-Caleffi-Z_One-2_Way_Normally_Open.rfa</i> <i>Valve-Zone_Assembly-Caleffi-Z_One-3_Way_Normally_Closed.rfa</i>
Type Catalogs:	<i>Valve-Zone_Assembly-Caleffi-Z_One-2_Way_Normally_Closed.txt</i> <i>Valve-Zone_Assembly-Caleffi-Z_One-2_Way_Normally_Open.txt</i> <i>Valve-Zone_Assembly-Caleffi-Z_One-3_Way_Normally_Closed.txt</i>
Rendering file:	Not Applicable
Schedule file:	Not Applicable



This family contains the following main variations or types:

- Sizes include 0.5 in., 0.75in., 1 in., and 1.25 in.
- Connection types include SAE Flare, Inverted Flare, Sweat, NPT, and Male Union with Press, MNPT, PEX Crimp, PEX Expansion, and Press
- 3. Each of the above combination has two additional options of 24 V, 120 V actuator with the 24 V actuator including additional terminal box option

All the above variations are included as separate types in the type catalog of each family

Instance Properties

Here is a curated list of notable parameters for the Revit user within the Caleffi Z-One Zone Valves family.

Construction	
Isolation Valve on Inlet (default)	This controls visibility of the isolation valve on the inlet.
Isolation Valve on Outlet	This controls visibility of the isolation valve on the inlet.
Isolation Valve on Inlet Stem Extension	This controls visibility of the isolation valve stem extension on the inlet.
Isolation Valve on Outlet Stem Extension	This controls visibility of the isolation valve stem extension on the outlet.
Isolation Valve Availability	This shows if isolation valve option is available for type placed in the project.
Mechanical - Flow	
Design Flow Rate (default)	This tells you the flow that this component is reading in the system.
Flow Warning (default)	This tells you a warning if the flow rate exceeds the maximum allowable.
Mechanical - Loads	
Pressure Drop Feet of Water (default)	Specify the pressure drop in feet of water.
System Pressure Drop (default)	This tells you the system pressure drop.

When the isolation valve check box is selected for the family, isolation valve is placed on the port corresponding to the box checked if available (Check the message at 'Isolation Valve Availability'). All the applicable boxes need to be checked for desired configuration.

Type Properties

Here is a curated list of notable parameters for the Revit user within the Caleffi Z-One Zone Valves family.

Z-One 2-way Normally Closed

Identity Data	
Assembly Code	D3040
Contact URL*	http://www.caleffi.com/usa/en-us/contacts/contact-us
Copyright*	©Caleffi North America
Cost	
Description	2-Way and 3-Way Straight Zone Valve with Actuator
Version*	1
Keynote	
Manufacturer	Caleffi North America, Inc.

Model	Z411041
Valve Body Code	Z200041
Product Page URL*	http://www.caleffi.com/usa/en-us/catalogue/z-onetm-2-way-motorized-zone-valves-z40
Type Comments	
Type Image	
Series*	Z4/Z5/Z6
Standards*	UL 873, cUL Listed and CE; NSF/ANSI/CAN 372 (<i>only applicable when bodies are low-lead</i>)
URL	https://www.caleffi.com/usa/en-us

Half-tone text in the property tables indicates that the value is locked from editing.

*Indicates Shared Parameter and can be scheduled

Rendering

Note: Standard Caleffi materials are imported. These may be modified, but please ensure that the modification selection matches an actual manufacturer supplied option.

Loading and Placing into the Project

To work with the Caleffi Z-One Zone Valves in Revit, a family and a type catalog are provided. Navigate to the Insert Tab > Load Family button on the Revit ribbon to load the family. Be sure the type catalog (.txt) file is located in the same folder as the family you are loading.

Please ensure that the visibility settings within the project are modified to have the Piping category visible.

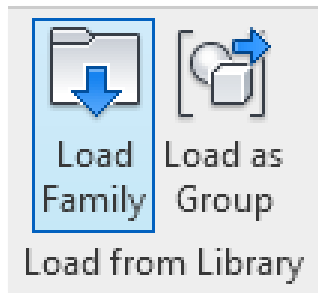


Figure 1 - Insert Tab > Load Family

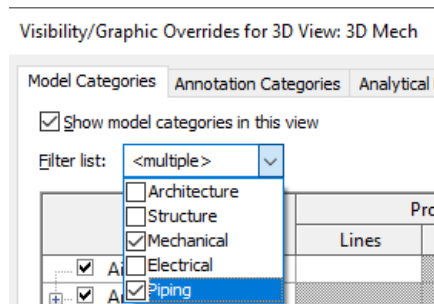


Figure 2 - Visibility/Graphic Overrides

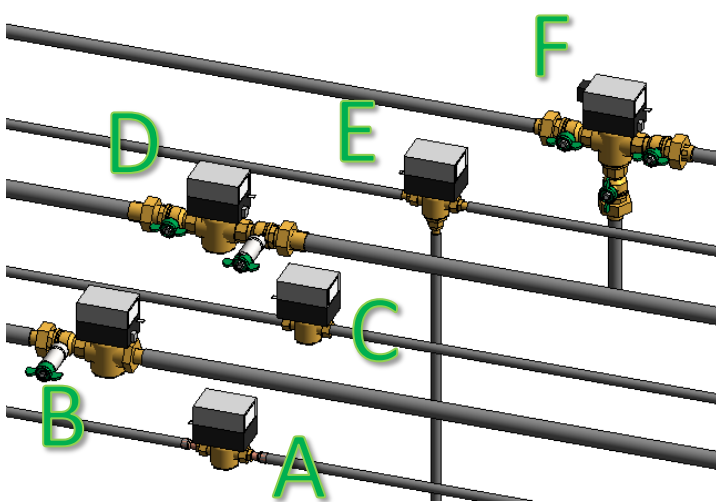


Figure 3 - Caleffi Z-One Zone Valves

- A. 0.5 in. Inverted Flare 2 Way Normally Closed zone valve with 24V Actuator with Auxiliary Micro Switch
- B. 1 in. Male Union with PEX Crimp Tailpiece 3.5 Cv, 2 Way Normally Closed valve with 120V Actuator with Auxiliary Micro-Switch, with isolation valve at inlet including stem extension
- C. 0.5 in. NPT 2 Way Normally Open zone valve with 2.5 Cv, 120V Actuator without Auxiliary Micro-Switch
- D. 1 in. Male Union with Sweat Tailpiece 2 way Normally Open zone valve with 3.5 Cv, 24 V Actuator with Auxiliary Micro-Switch, with isolation valves at both ports and stem extension select for the isolation valve at the outlet
- E. 0.5 in. SAE Flare 3 Way Normally Closed zone valve with 3.5 Cv, 24V Actuator with Auxiliary Micro-Switch
- F. 0.75 in. Male Union with MNPT Tailpiece 3 Way Normally Closed zone valve with 7.5 Cv, 24V Actuator with Auxiliary Micro-Switch Terminal Block, with isolation valves at all ports

Project Behavior

One way to place a Caleffi Z-One Zone Valves is to go to the Systems Tab on the Revit ribbon and navigate to the Component button with Place a Component fly-out selected.

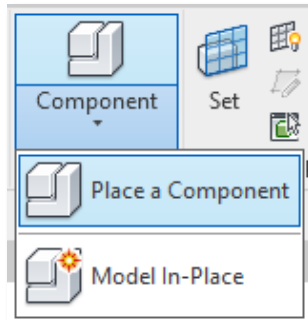


Figure 4 - Systems Tab > Component > Place a Component

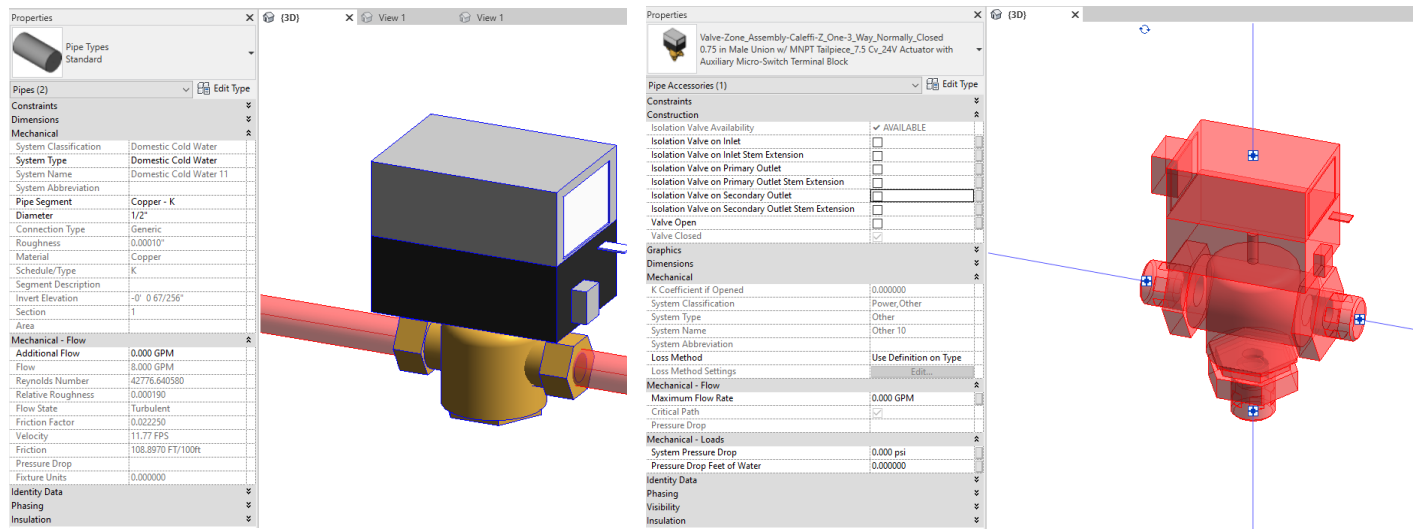


Figure 5 – The Caleffi Z-One Zone Valves families can be found under pipe accessories in the project browser and placed directly onto pipe of the same size. It will then read flows and consider pressure drop in the system.

Schedule Creation

Within the type and instance properties dialogues, the Revit user will find useful information for scheduling purposes such as Type, Part Description, Part Number/Model, Family Version, Manufacturer, Series, & Product Page URL. The resulting Pipe Accessories schedule in your project will show counts/quantities of the Caleffi Z-One Zone Valves as well as separate quantities/counts of any separately purchased accessory products that do not come in box with the Caleffi Z-One Zone Valves.