

THERMOSETTER™ Thermal Balancing Valve

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116, 1164 Series

Revit Content Instructions Guide

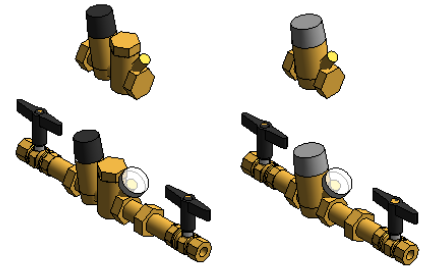
Manufacturer & Product: Caleffi 116, 1164 ThermoSetter
Balancing_Valve-ThermoSetter-Caleffi-LF_Brass-116.rfa
Balancing_Valve-ThermoSetter-Caleffi-LF_Brass-1164.rfa

Files:
Balancing_Valve-ThermoSetter-Caleffi-LF_Brass-116.txt
Balancing_Valve-ThermoSetter-Caleffi-LF_Brass-1164.txt

Type Catalogs:

Rendering file: Not Applicable

Schedule file: Not Applicable



This family contains the following main variations or types:

- Sizes include 0.5 in, 0.75 in with union connections (sweat, press, NPT female, PEX expansion and PEX crimp), and 1 in. and 1.25 in. with FNPT connections.
- Options of adding isolation valve at both ports
- Option to add temperature gauge
- Option to add check valve for 1 in. and 1.25 in. sizes. Check valve is standard for 0.5 in. and 0.75 in.
- Option to select one of 1161, 1162, 1163, 1166 Series (Not applicable for 1164 Series)

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 OBCaleffi 116, 1164 ThermoSetter family.

Construction	
Check Valve	This controls visibility of a check valve
Isolation Valve	This controls visibility of an isolation valve and is pre-selected based on the type
NA108 Valve	Depending on the size, the NA108 would be visible.
290030 Valve	Depending on the size, the 290030 would be visible.
Temperature Gauge	This controls visibility of a temperature gauge and is pre-selected based on the type
▼ Thermo-electric Actuator Selection (default)	Specify one of the listed actuators (Applicable for 1161/2/3/6 ThermoSetters only).
1. 656404 Actuator (default)	This shows a checkbox based on selection above.
2. 656414 Actuator (default)	This shows a checkbox based on selection above.
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.

Type Properties

Here is a curated list of notable parameters for the Revit user within the OBCaleffi 116, 1164 ThermoSetter family.

116 ThermoSetter

Identity Data	
Assembly Code	D3040
Contact URL*	http://www.caleffi.com/usa/en-us/contacts/contact-us
Copyright*	©Caleffi North America
Cost	
Description	Adjustable thermal balancing valve for domestic hot water recirculation circuits.
Family Version*	1

Keynote	
Manufacturer	Caleffi North America, Inc.
Model	116140AC 008
Product Page URL*	https://www.caleffi.com/usa/en-us/catalogue/thermosettertm-thermal-balancing-valve-thermal-disinfection-116240a
Type Comments	
Type Image	
Series*	1161 Series
Standards*	NSF/ANSI/CAN 61; NSF/ANSI/CAN 372; S.3874; Reduction of Lead in Drinking Water Act; Vermont Act 193; Maryland's Lead-Free Law Hb.373
URL	https://www.caleffi.com/usa/en-us

1164 ThermoSetter

Identity Data	
Assembly Code	D3040
Contact URL*	http://www.caleffi.com/usa/en-us/contacts/contact-us
Copyright*	©Caleffi North America
Cost	
Description	Adjustable thermal balancing valve for domestic hot water recirculation circuits.
Family Version*	1
Keynote	
Manufacturer	Caleffi North America, Inc.
Model	116440A 002
Product Page URL*	https://www.caleffi.com/usa/en-us/catalogue/thermosettertm-thermal-balancing-valve-116440a
Type Comments	
Type Image	
Series*	1164 Series
Standards*	NSF/ANSI/CAN 61; NSF/ANSI/CAN 372; S.3874; Reduction of Lead in Drinking Water Act; Vermont Act 193; Maryland's Lead-Free Law Hb.373
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 OBCaleffi 116, 1164 ThermoSetter 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.

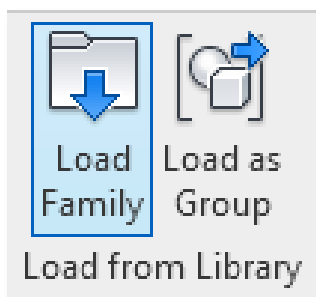


Figure 1 - Insert Tab > Load Family

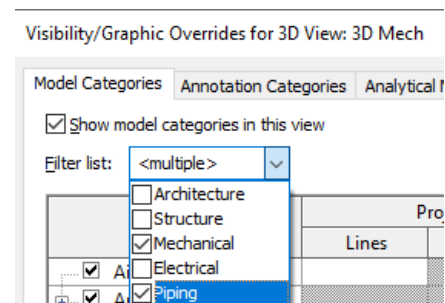


Figure 2 - Visibility/Graphic Overrides

Project Behavior

One way to place a 0BCaleffi 116, 1164 ThermoSetter is to go to the Systems Tab on the Revit ribbon and navigate to the Component button with Place a Component fly-out selected.

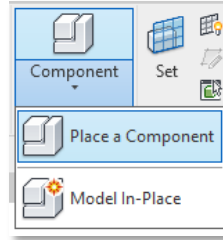
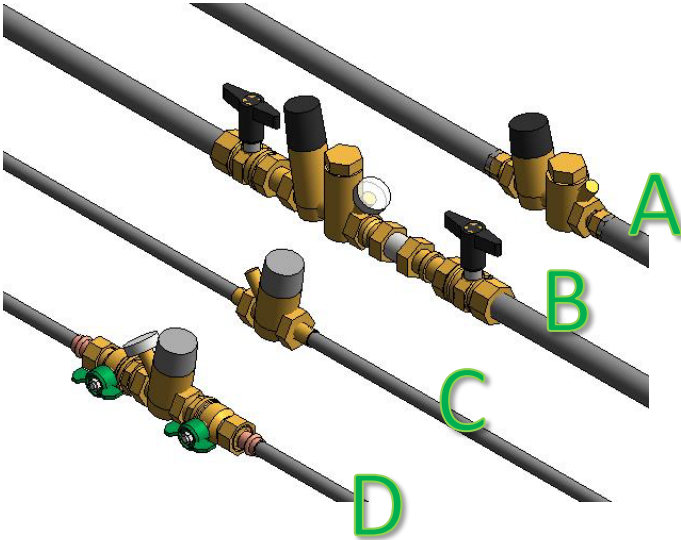


Figure 3 - Systems Tab > Component > Place a Component



- A. 1161 ThermoSetter with 1 in. FNPT connections
- B. 1162 ThermoSetter with 1 in. FNPT connections, isolation valves, temperature gauge, check valve
- C. 1164 ThermoSetter with 0.5 in. union connections with sweat tailpieces.
- D. 1164 ThermoSetter with 0.5 in. union connections with press tailpieces, isolation valves, temperature gauge, check valve

Figure 4 - 0BCaleffi 116, 1164 ThermoSetter

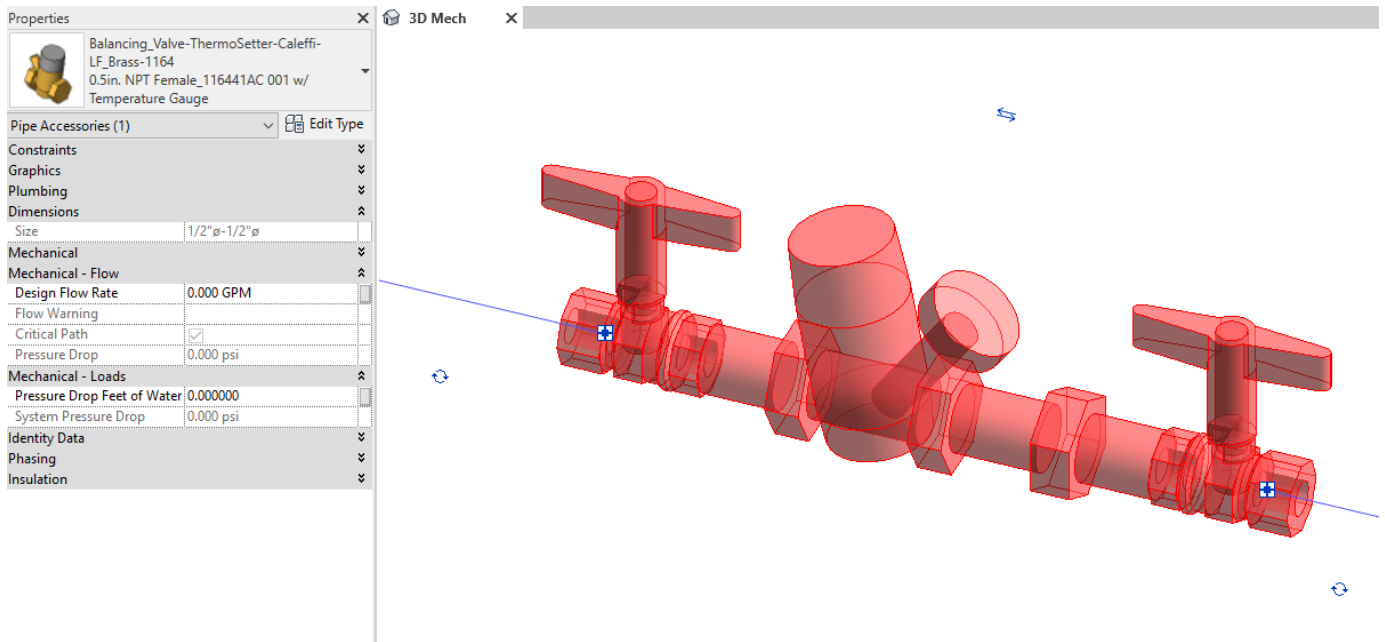


Figure 5 – The Caleffi 116, 1164 ThermoSetter families can be found under pipe accessories in the project browser and placed directly onto pipe of the same size. It will then read flows and consider pressure drop in the system.

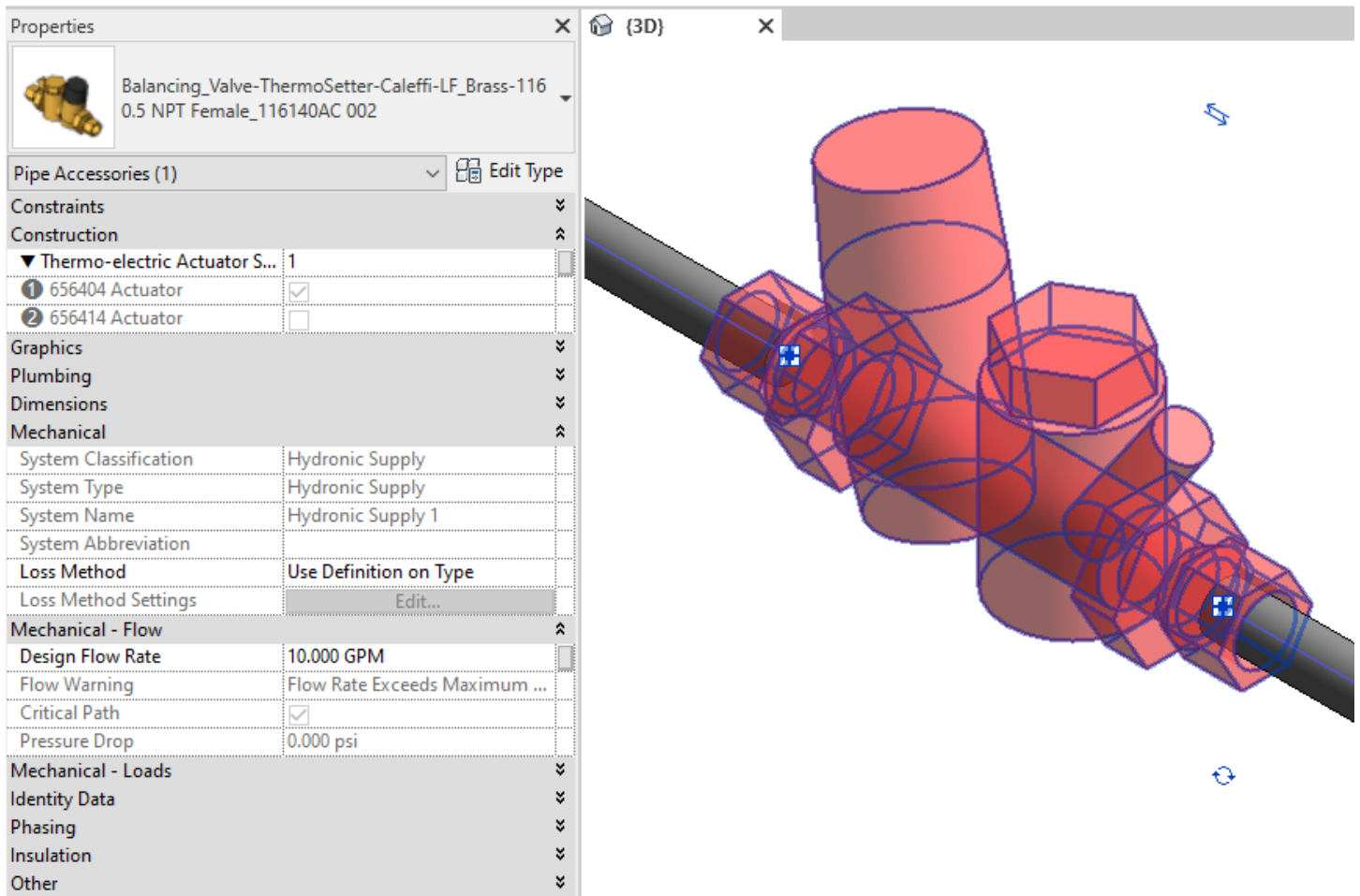


Figure 6 – The OBCaleffi 116, 1164 ThermoSetter families have two different Thermo-electric Actuator options that the Revit user can select to appear and show up in the Revit schedule. If the flow rate exceeds what the ThermoSetter can handle, a Flow Warning appears in the properties.

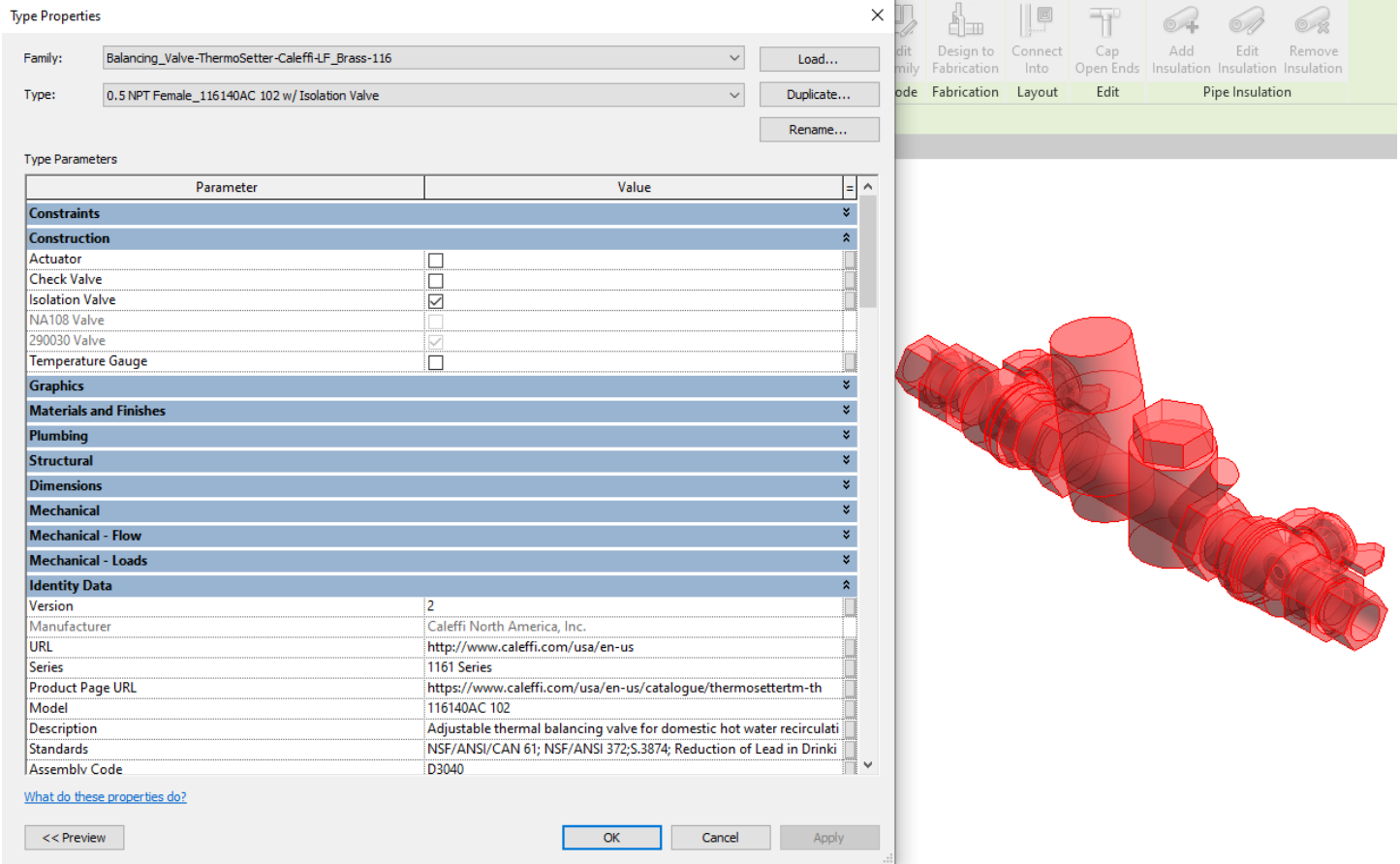


Figure 7 - The type name indicates pre-selected options such as Isolation Valves and Temperature Gauges. The Caleffi 116 and 1164 ThermoSetter families have pre-selected options for the correct Isolation Valve that will appear and show up in the schedule. Additionally, Actuators and Check Valves can be selected across all placed instances of a certain type to further customize what will appear in the project and in the Revit schedule.

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 OBCaleffi 116, 1164 ThermoSetter as well as separate quantities/counts of any separately purchased accessory products that do not come in box with the OBCaleffi 116, 1164 ThermoSetter. Please note that other category schedules may be needed to see other separately purchased products such as Actuators.