

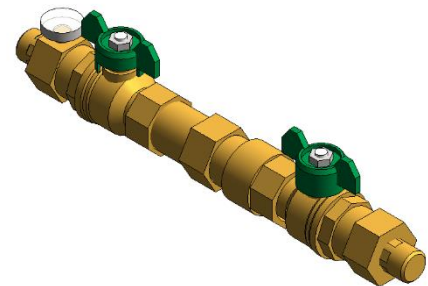
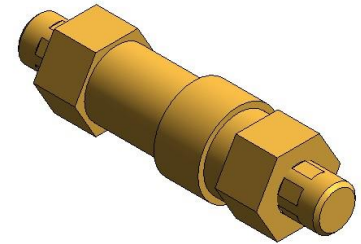
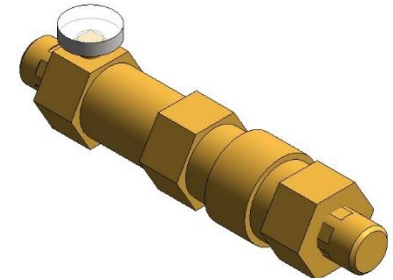
# FlowCal™, FlowCal+™ Automatic Balancing Valves

## 127AF, 127AFC Series

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### Revit Content Instructions Guide

<b>Manufacturer &amp; Product:</b>	Caleffi FlowCal+ 127AFC and FlowCal 127AF
<b>Files:</b>	Valve-Balancing-Caleffi-FlowCal+-Compact_127AFC.rfa Valve-Balancing-Caleffi-FlowCal-Compact_127AF.rfa
<b>Type Catalogs:</b>	Valve-Balancing-Caleffi-FlowCal+-Compact_127AFC.txt
<b>Rendering file:</b>	Not Applicable
<b>Schedule file:</b>	Not Applicable



**These families contain the following main variations or types:**

- 0.5in. MNPT\_127140AFC w/ Temperature Gauge
- 0.5in. MNPT\_127141AFC
- 0.5in. Press\_127147AFC w/ Temperature Gauge
- 0.5in. Press\_127146AFC
- 0.5in. Sweat\_127148AFC w/ Temperature Gauge
- 0.5in. Sweat\_127149AFC
- 0.75in. MNPT\_127150AFC w/ Temperature Gauge
- 0.75in. MNPT\_127151AFC
- 0.75in. Press\_127157AFC w/ Temperature Gauge
- 0.75in. Press\_127156AFC
- 0.75in. Sweat\_127158AFC w/ Temperature Gauge
- 0.75in. Sweat\_127159AFC
- 1in. MNPT\_127160AFC w/ Temperature Gauge
- 1in. MNPT\_127161AFC
- 1in. Press\_127167AFC w/ Temperature Gauge
- 1in. Press\_127166AFC
- 1in. Sweat\_127168AFC w/ Temperature Gauge
- 1in. Sweat\_127169AFC
- 0.5in. PEX Expansion\_127143AFC w/ Temperature Gauge
- 0.5in. PEX Expansion\_127142AFC
- 0.5in. PEX Crimp\_127145AFC w/ Temperature Gauge
- 0.5in. PEX Crimp\_127144AFC
- 0.75in. PEX Expansion\_127153AFC w/ Temperature Gauge
- 0.75in. PEX Expansion\_127152AFC
- 0.75in. PEX Crimp\_127155AFC w/ Temperature Gauge
- 0.75in. PEX Crimp\_127154AFC
- 1in. PEX Expansion\_127163AFC w/ Temperature Gauge
- 1in. PEX Expansion\_127162AFC
- 1in. PEX Crimp\_127165AFC w/ Temperature Gauge
- 1in. PEX Crimp\_127164AFC
- 0.5in. MNPT\_127341AF
- 0.5in. Press\_127346AF
- 0.5in. Sweat\_127349AF
- 0.5in. PEX Expansion\_127342AF
- 0.5in. PEX Crimp\_127344AF
- 0.75in. MNPT\_127351AF
- 0.75in. Press\_127356AF
- 0.75in. PEX Expansion\_127352AF
- 0.75in. PEX Crimp\_127354AF
- 0.75in. Sweat\_127359AF
- 1in. MNPT\_127361AF
- 1in. Press\_127366AF

- 1in. Sweat\_127369AF
- 1in. PEX Expansion\_127362AF
- 1in. PEX Crimp\_127364AF

## Instance Properties

Here is a curated list of notable parameters for the Revit user within the Caleffi FlowCal+ 127AFC and FlowCal 127AF families.

Construction	
Inlet Isolation Valve (default)	This controls the isolation valve type on the inlet.
(0) No Isolation Valve on Inlet (default)	This is active if no isolation valve is selected on inlet
(1) 290030 Isolation Valve on Inlet (default)	This is active if 290030 isolation valve is selected on inlet
(2) 290031 Isolation Valve on Inlet (default)	This is active if 290031 isolation valve is selected on inlet
Outlet Isolation Valve (default)	This controls the isolation valve type on the outlet.
(0) No Isolation Valve on Outlet (default)	This is active if no isolation valve is selected on outlet
(1) 290030 Isolation Valve on Outlet (default)	This is active if 290030 isolation valve is selected on outlet
(2) 290031 Isolation Valve on Outlet (default)	This is active if 290031 isolation valve is selected on outlet
Mechanical - Flow	
▼ Desired Flow Rate Selection (default) <ol style="list-style-type: none"> <li>1. 0.35 GPM</li> <li>2. 0.50 GPM</li> <li>3. 0.75 GPM</li> <li>4. 1.00 GPM</li> <li>5. 1.30 GPM</li> <li>6. 1.50 GPM</li> <li>7. 1.70 GPM</li> <li>8. 2.00 GPM</li> <li>9. 2.20 GPM</li> <li>10. 2.50 GPM</li> <li>11. 2.60 GPM</li> <li>12. 3.00 GPM</li> <li>13. 3.50 GPM</li> <li>14. 4.00 GPM</li> <li>15. 4.50 GPM</li> <li>16. 5.00 GPM</li> <li>17. 6.00 GPM</li> <li>18. 7.00 GPM</li> <li>19. 8.00 GPM</li> <li>20. 9.00 GPM</li> <li>21. 10.00 GPM</li> </ol>	Select the desired fixed flow rate.
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. 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 FlowCal+ 127AFC and FlowCal 127AF families.

127AFC FlowCal+

Materials	
Valve Body Material	Metal - Caleffi - Brass
Seal Material	Rubber - Caleffi - EPDM
Identity Data	
Assembly Code	D2090800
Contact URL*	<a href="http://www.caleffi.com/usa/en-us/contacts/contact-us">http://www.caleffi.com/usa/en-us/contacts/contact-us</a>
Copyright*	©Caleffi North America
Cost	
Description	Automatic Balancing Valve
Family Version*	2
Keynote	
Manufacturer	Caleffi North America, Inc.
Model	127141AFC

Manufacturer Complete Model Number	127140AFC G35
Product Page URL*	<a href="https://www.caleffi.com/en-us/products/balancing-valves/dynamic/flowcaltm-compact">https://www.caleffi.com/en-us/products/balancing-valves/dynamic/flowcaltm-compact</a>
Type Comments	
Type Image	
Series*	FlowCal+ 127AFC Series
Standards*	NSF/ANSI/CAN 372; S.3874; Vermont Act 193; Maryland's Lead-Free Law; Reduction of Lead in Drinking Water Act - California Health and Safety Code 116875
URL	<a href="https://www.caleffi.com/usa/en-us">https://www.caleffi.com/usa/en-us</a>

### 127AF FlowCal

Materials	
Valve Body Material	Metal - Caleffi - Brass
Seal Material	Rubber - Caleffi - EPDM
Identity Data	
Assembly Code	D2090800
Contact URL*	<a href="http://www.caleffi.com/usa/en-us/contacts/contact-us">http://www.caleffi.com/usa/en-us/contacts/contact-us</a>
Copyright*	©Caleffi North America
Cost	
Description	Automatic Balancing Valve
Family Version*	2
Keynote	
Manufacturer	Caleffi North America, Inc.
Model	127341AF
Manufacturer Complete Model Number	127140AF G35
Product Page URL*	<a href="https://www.caleffi.com/en-us/products/balancing-valves/dynamic/flowcaltm-compact-0">https://www.caleffi.com/en-us/products/balancing-valves/dynamic/flowcaltm-compact-0</a>
Type Comments	
Type Image	
Series*	FlowCal 127AF Series
Standards*	NSF/ANSI/CAN 372; S.3874; Vermont Act 193; Maryland's Lead Free Law;Reduction of Lead in Drinking Water Act - California Health and Safety Code 116875
URL	<a href="https://www.caleffi.com/usa/en-us">https://www.caleffi.com/usa/en-us</a>

Halftone 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 FlowCal+ 127AFC and FlowCal 127AF in Revit, multiple families and variations within type catalogs 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.

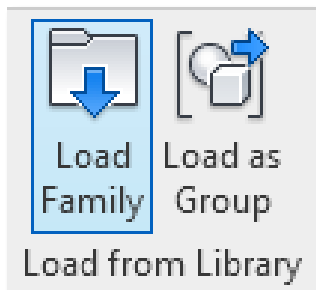


Figure 1 - Insert Tab > Load Family

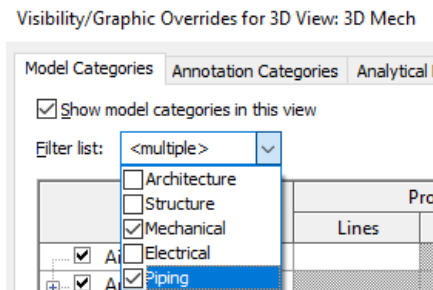


Figure 2 - Visibility/Graphic Overrides

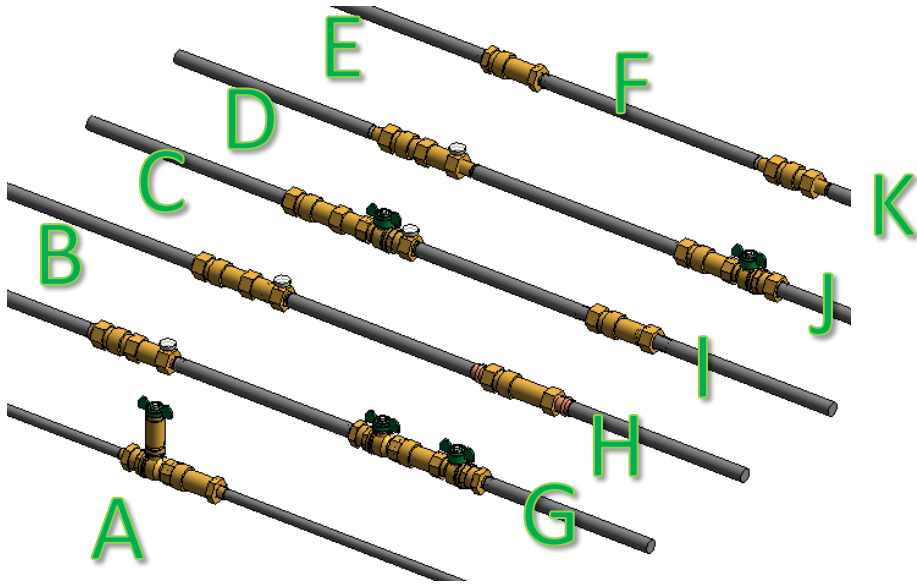


Figure 3 - Caleffi FlowCal+ 127AFC and FlowCal 127AF

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>A. FlowCal+ with Sweat tailpieces with 290031 valve on Inlet</li> <li>B. FlowCal+ with Press tailpieces</li> <li>C. FlowCal+ with PEX expansion tailpieces</li> <li>D. FlowCal+ with PEX Crimp tailpieces with 290030 valve on outlet</li> <li>E. FlowCal+ with MNPT tailpieces</li> </ul> | <ul style="list-style-type: none"> <li>F. FlowCal+ with Sweat tailpieces and without temperature gauge</li> <li>G. FlowCal with Sweat tailpieces and with temperature gauge and also 290030 valves on both ports</li> <li>H. FlowCal with Press tailpieces</li> <li>I. FlowCal with PEX expansion tailpieces</li> <li>J. FlowCal with PEX Crimp tailpieces with 290030 valve on inlet</li> <li>K. FlowCal with MNPT tailpieces</li> </ul> |
|---|---|

## Project Behavior

One way to place a Caleffi FlowCal+ 127AFC and FlowCal 127AF is to go to the Systems Tab on the Revit ribbon and navigate to the Component button with Place a Component fly-out selected.

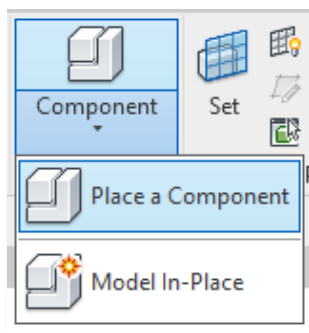


Figure 4 - Systems Tab > Component > Place a Component

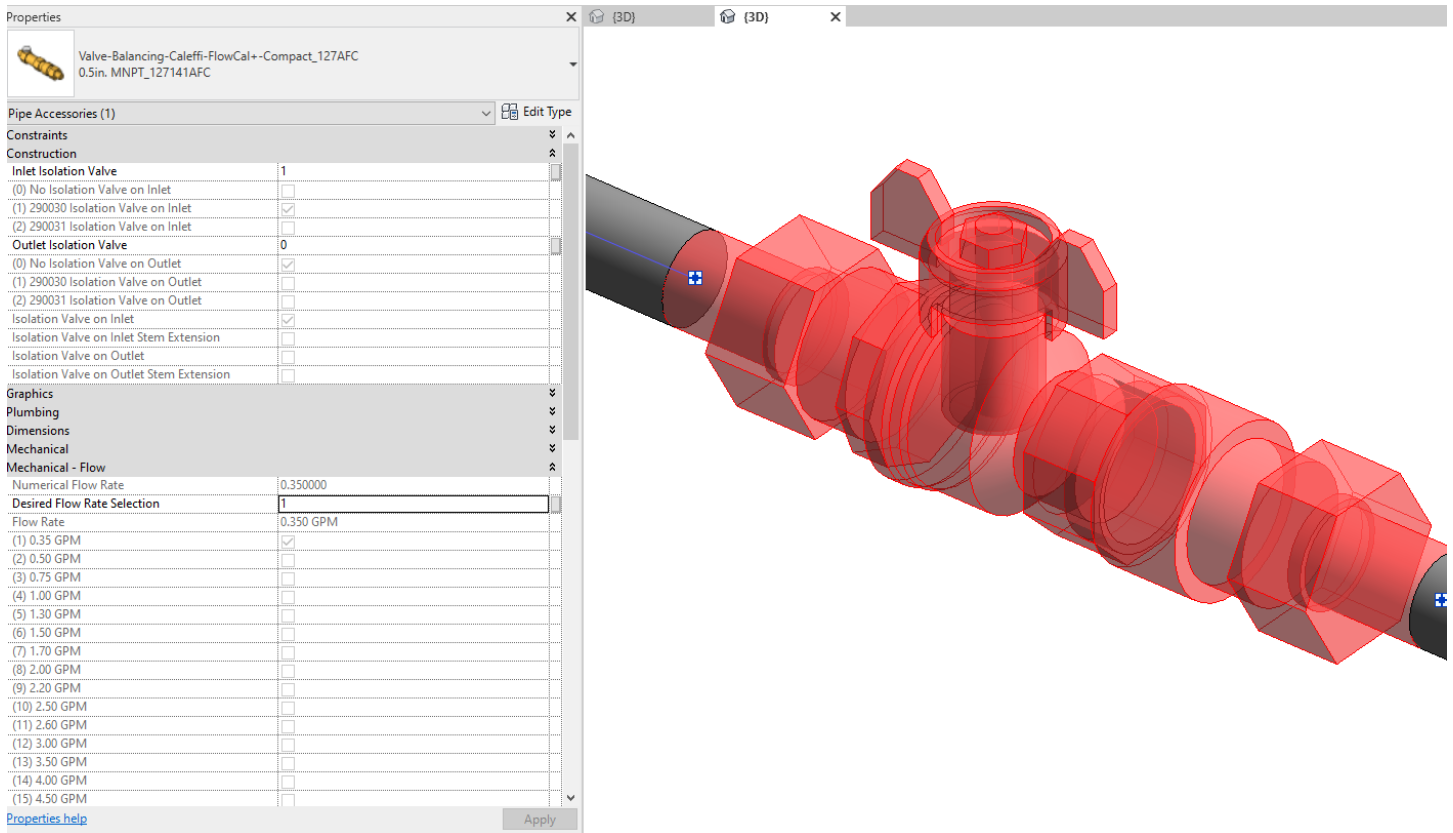


Figure 5 – The Caleffi FlowCal+ 127AFC and FlowCal 127AF families can be found under pipe accessories in the project browser and placed directly onto pipe of the same size. Shown here is a flow rate selection of “3,” which yields 0.75 GPM, as well as selections for isolation valves/stem extensions.

## 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 FlowCal+ 127AFC and FlowCal 127AF as well as separate quantities/counts of any separately purchased accessory products that do not come in box with the Caleffi FlowCal+ 127AFC and FlowCal 127AF.