

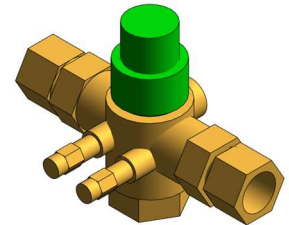
FLOWMATIC®

© Copyright 2023 Caleffi

145 Series

Revit Content Instructions Guide

Manufacturer & Product:	Caleffi FLOWMATIC® 145 Series
Files:	<i>Pressure_Independent_Control_Valve-Caleffi-FLOWMATIC-145.rfa</i>
Type Catalogs:	<i>Pressure_Independent_Control_Valve-Caleffi-FLOWMATIC-145.txt</i>
Rendering file:	Not Applicable
Schedule file:	Not Applicable



The Caleffi FLOWMATIC® 145 Series family contains the following main variations or types:

- Sizes 0.5 in., 0.75 in. and 1 in.
- Connection types NPT Female, Press, Sweat Union
- Option to add NA108 Valve at either/both ends for ½", 1" size types
- Option to add 290030 Valve at either/both ends for ¾" size type
- Option to add stem extension on 290030 valve at either or both ends

Instance Properties

Here is a curated list of notable parameters for the Revit user within the Caleffi FLOWMATIC® 145 Series family.

Construction	
290030 Valve Availability	This parameter shows if 290030 Valve option is available for selected size type
▶ 290030 Valve on Inlet	This controls visibility of the 290030 valve on the inlet.
▶ 290030 Valve on Inlet Stem Extension	This controls visibility of the 290030 valve stem extension on the inlet.
▶ 290030 Valve on Outlet	This controls visibility of the 290030 valve on the outlet.
▶ 290030 Valve on Outlet Stem Extension	This controls visibility of the 290030 valve stem extension on the outlet.
NA108 Valve Availability	This parameter shows if NA108 Valve option is available for selected size type
▶ NA108 Valve on Inlet	This controls visibility of the NA108 valve on the inlet
▶ NA108 Valve on Outlet	This controls visibility of the NA108 valve on the outlet
▶ Actuator Option Selector	This controls the visibility of actuator from list below
① Manual Valve	This is active when Actuator Option Selector is set to 1
② Code 145013 Actuator	This is active when Actuator Option Selector is set to 2
③ Code 145018 Actuator	This is active when Actuator Option Selector is set to 3
④ Code 656504	This is active when Actuator Option Selector is set to 4
⑤ Code 656524	This is active when Actuator Option Selector is set to 5
Graphics	
Isometric Single Lines (default)	This controls the visibility of the 2D symbol in Elevation Views
Plan Single Lines (default)	This tells you if the 2D symbol is visible in Plan View
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 falls outside the allowable minimum/maximum
Mechanical – Loads	
Pressure Drop Feet of Water	Specify the pressure drop in feet of water.
System Pressure Drop	This tells you the system pressure drop.

Type Properties

Here is a curated list of notable parameters for the Revit user in the Caleffi FLOWMATIC® 145 Series family.

Materials	
Body Material	Metal - Caleffi - Brass - DZR Corrosion Resistant
Control Stem Material	Metal - Caleffi - Stainless Steel

Valve Plug Seat Material	Plastic - Caleffi – PTFE
Identity Data	
Assembly Code	D2090300
Contact URL*	https://www.caleffi.com/usa/en-us/contacts/contact-us
Copyright*	©Caleffi North America
Cost	
Description*	Pressure independent control valve (PICV)
Family Version*	1
Keynote	
Manufacturer*	Caleffi North America, Inc.
Model*	145443A 3G5
Actuator Model*	145013
Product Page URL*	https://www.caleffi.com/usa/en-us/products/search?query=145
Type Comments	
Type Image	
Series*	FLOWMATIC 145 Series
Standards*	IPC, UPC
URL*	http://www.caleffi.com/usa/en-us
Revit Content Guide URL*	https://www.caleffi.com/usa/en-us/docs/search?search_language=en-us&search_file_type=All&f%5B0%5D=field_file_type%3A54181

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 FLOWMATIC® 145 Series in Revit, family and type catalog files 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

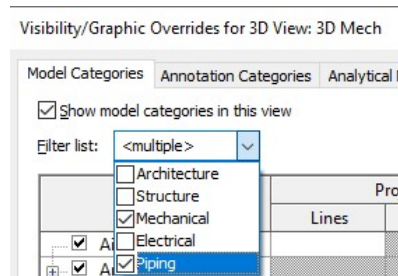
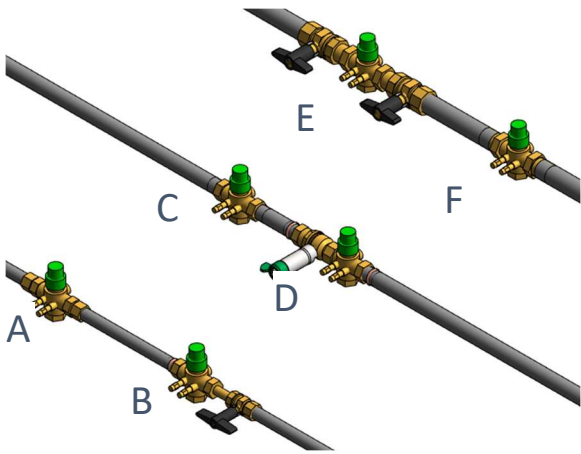


Figure 2 - Visibility/Graphic Overrides



Example types and variations placed in Revit test project:

- A. 1/2" NPT Female connection (145443A 1G8)
- B. 1/2" Press connection with NA108 valve on outlet (145446A 3G5)
- C. 3/4" Sweat connection (14559A 1G8)
- D. 3/4" Press connection with 290030 valve on inlet with stem extension
- E. 1" NPT Female connection with NA108 valve on inlet and outlet (145663A 13G)
- F. 1" Sweat connection (145669A 16G)

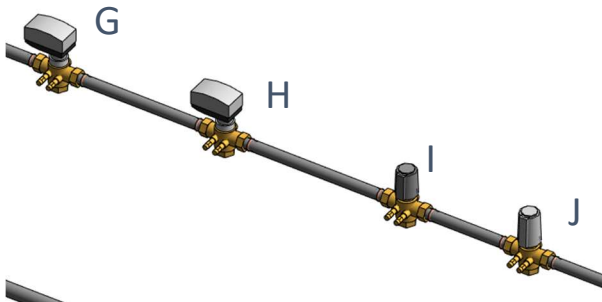


Figure 3 - Caleffi FLOWMATIC® 145 Series

Project Behavior

One way to place a Caleffi FLOWMATIC® 145 Series is to go to the Systems Tab on the Revit ribbon and navigate to the Component button with Place a component fly-out selected.

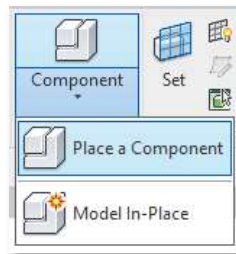


Figure 4 - Systems Tab > Component > Place a Component

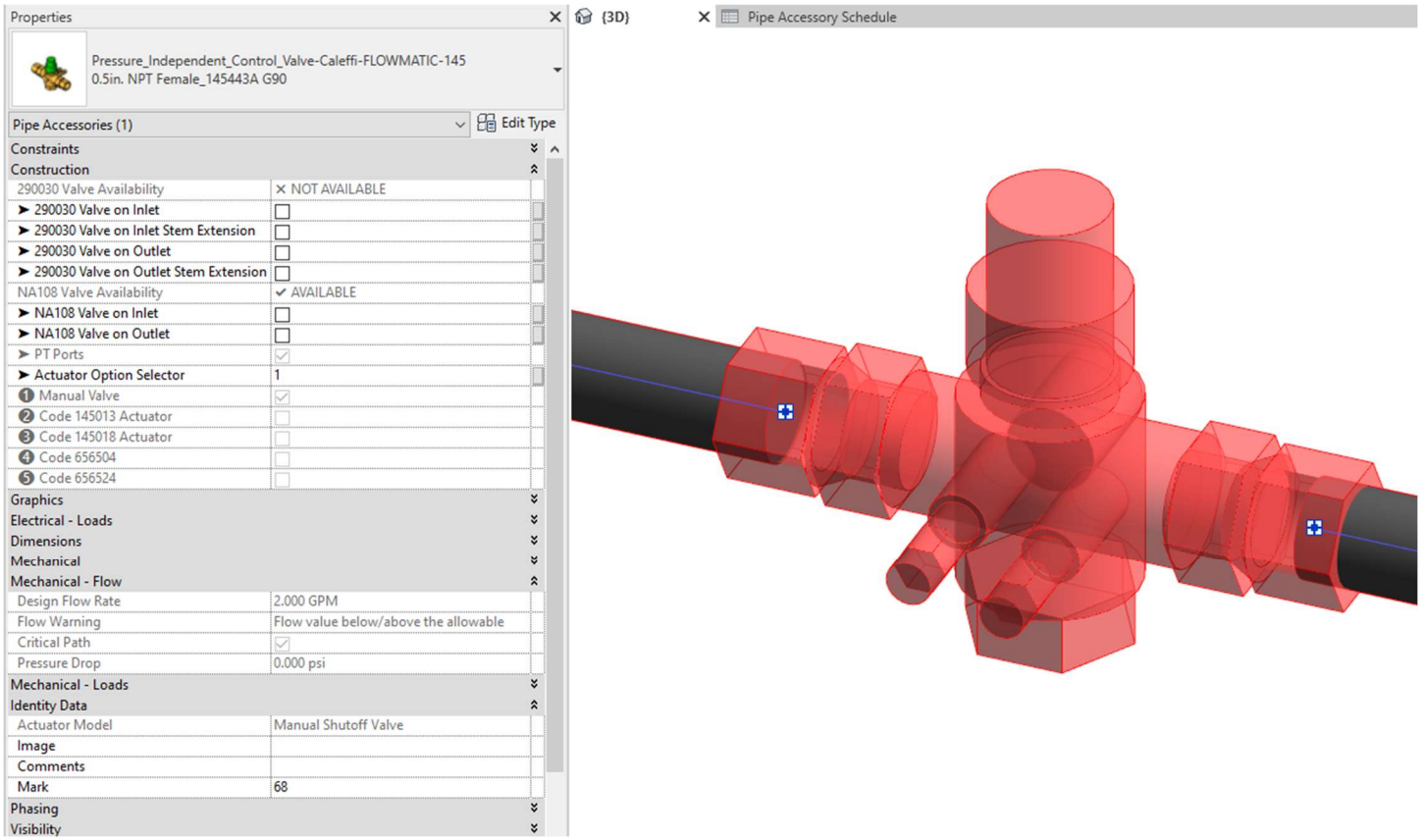


Figure 5 – The Caleffi FLOWMATIC® 145 Series families can be found under pipe accessories in the project browser and placed directly onto pipe of the same size. It will then read flows and consider pressure drop in the system.

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 FLOWMATIC® 145 Series as well as separate quantities/counts of any separately purchased accessory products that do not come in box with the Caleffi FLOWMATIC® 145 Series.

**For Technical Support call 1-414-338-6338, or
email techsupport.us@caleffi.com**

