

## ThermoProtec™ Boiler Protection Thermostatic Mixing Valve

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280 Series

### Revit Content Instructions Guide

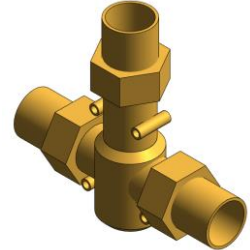
**Manufacturer & Product:** Caleffi ThermoProtec 280 Series

**Files:** *Thermostatic\_Mixing\_Valve-ThermoProtec-Caleffi-280.rfa*

**Type Catalogs:** Not Applicable

**Rendering file:** Not Applicable

**Schedule file:** Not Applicable



The ThermoProtec 280 includes variations as follows:

1. Sizes include 1 in. and 1.25 in.
2. Connection types include MNPT and Sweat Union

### Instance Properties

Here is a curated list of notable parameters for the Revit user within the Caleffi ThermoProtec 280 Series family.

Construction	
▼ Tset Selection (default)	This controls the TSet selection from the list below
① 130°F (55°C) Tset (default)	This shows if TSet selection is active
② 140°F (60°C) Tset (default)	This shows if TSet selection is active
③ 115°F (45°C) Tset (default)	This shows if TSet selection is active
④ 160°F (70°C) Tset (default)	This shows if TSet selection is active
► Temperature Gauge - Hot Water Inlet 1	This controls the visibility of temperature gauge at the specified location
► Temperature Gauge - Hot Water Inlet 2	This controls the visibility of temperature gauge at the specified location
► Temperature Gauge - Cold Water Inlet Bottom	This controls the visibility of temperature gauge at the specified location
► Temperature Gauge - Tempered Water Outlet Bottom	This controls the visibility of temperature gauge at the specified location
Mechanical	
Cold Water Percentage (default)	This controls the cold water percentage in the mixture
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 Caleffi ThermoProtec 280 Series families.

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	Boiler protection high-flow thermostatic mixing valve.
Version*	1
Keynote	
Manufacturer	Caleffi North America, Inc.
Model	280165A
Product Page URL*	<a href="https://www.caleffi.com/usa/en-us/catalogue/thermoprotectm-thermostatic-mixing-valve-high-flow-npt-280165a">https://www.caleffi.com/usa/en-us/catalogue/thermoprotectm-thermostatic-mixing-valve-high-flow-npt-280165a</a>

Type Comments	
Type Image	
Series*	280 Series
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 ThermoProtec 280 Series in Revit, a family with all types loaded is provided. Navigate to the Insert Tab > Load Family button on the Revit ribbon to load the family.

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

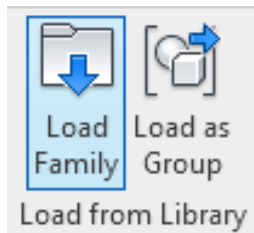


Figure 1 - Insert Tab > Load Family

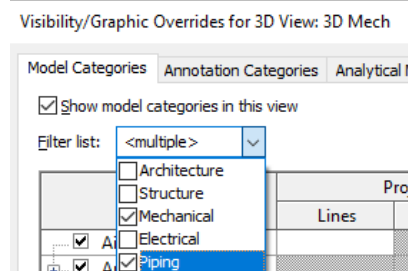


Figure 2 - Visibility/Graphic Overrides

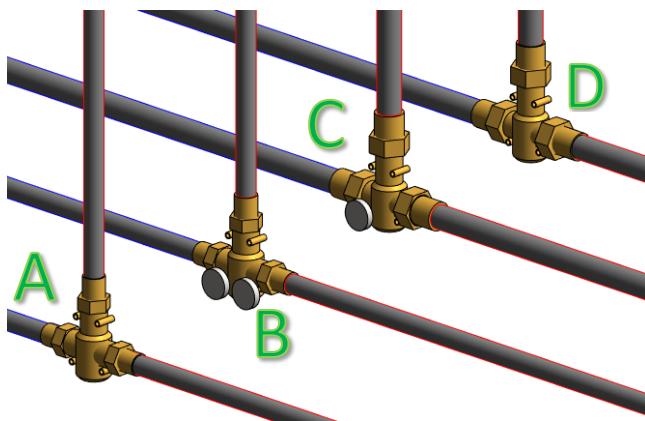


Figure 3 - Caleffi ThermoProtec 280 Series

### 280 ThermoProtec

- A. 1 in. Sweat connection ThermoProtec 280
- B. 1 in. MNPT connection ThermoProtec 280 with two dual scale temperature gauges
- C. 1.25 in. MNPT connection ThermoProtec 280 with dual scale temperature gauge
- D. 1.25 in. Sweat connection ThermoProtec 280

## Project Behavior

One way to place a Caleffi ThermoProtec 280 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.

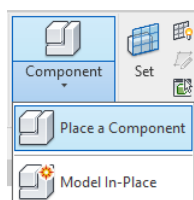


Figure 4 - Systems Tab > Component > Place a Component

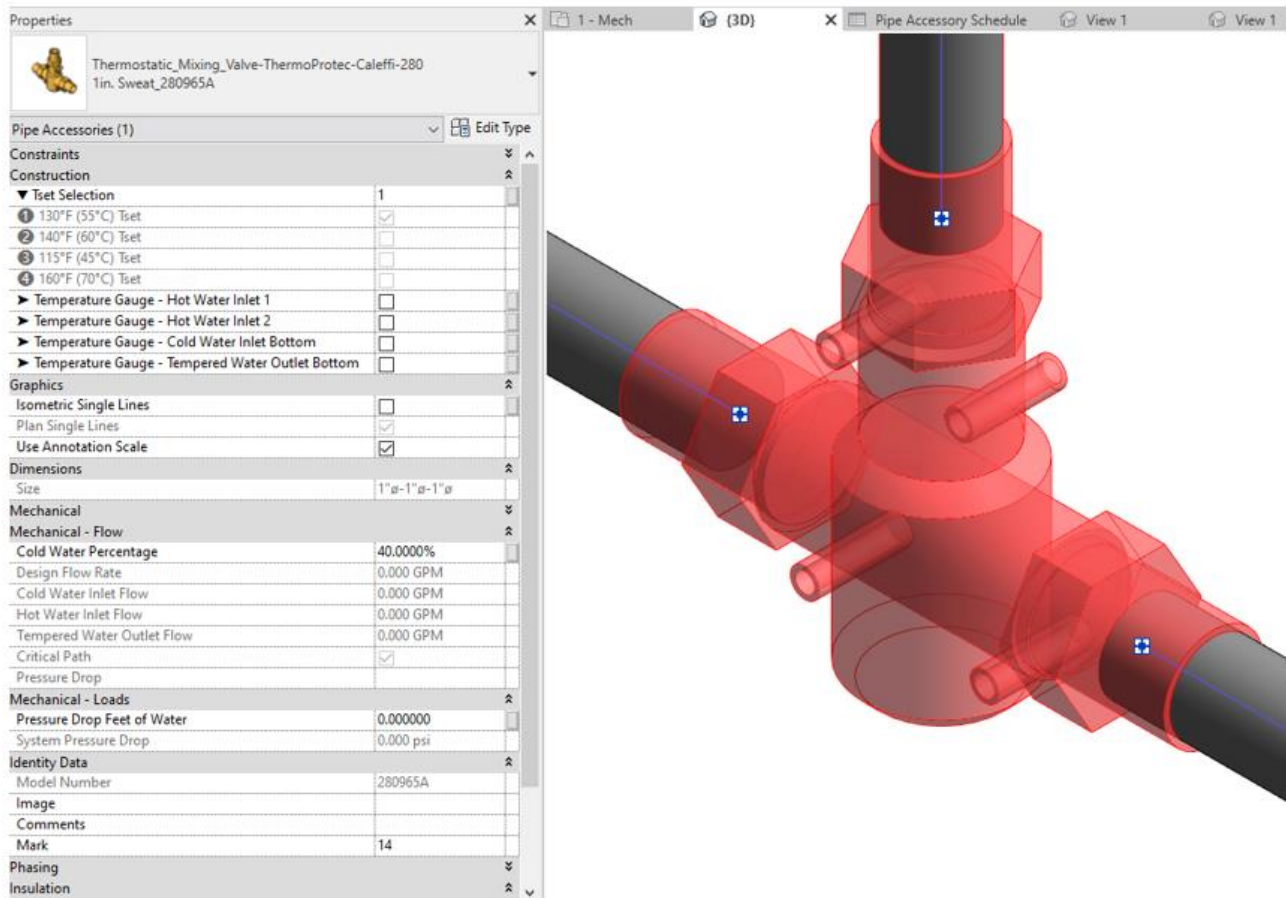


Figure 5 – The Caleffi ThermoProtec 280 Series family can be found under pipe accessories in the project browser and placed directly onto pipe of the same size. It will then read flows and consider pressure drop in the system.

## 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 ThermoProtec 280 Series as well as separate quantities/counts of any separately purchased accessory products that do not come in box with the Caleffi ThermoProtec 280 Series.