

Tankless Water Heater Service Valve Kit with and without Tankmixer™

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290 Series

Revit Content Instructions Guide

Manufacturer & Product: Caleffi 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit

Files: *Mixing_Valve-Tankless_Water_Heater_TankMixer-Caleffi-Brass-290-With_Flex_Pipe.rfa*
Mixing_Valve-Tankless_Water_Heater_TankMixer-Caleffi-Brass-290-Without_Flex_Pipe.rfa
Tankless_Heater_Service_Valve_Kit-Caleffi-Brass-290_Series.rfa

Type Catalogs: *Mixing_Valve-Tankless_Water_Heater_TankMixer-Caleffi-Brass-290-With_Flex_Pipe.txt*
Mixing_Valve-Tankless_Water_Heater_TankMixer-Caleffi-Brass-290-Without_Flex_Pipe.txt

Rendering file: Not Applicable

Schedule file: Not Applicable

The Caleffi 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit families contain the following main variations or types:

- Water Heater Tank: 3/4" NPT female union connections (water heater comes with 1/4" NPT male nipples)
- System: 3/4" NPT female, press, sweat, PEX crimp and PEX expansion union connections.
- Pressure relief valve discharge port: 3/4" NPT female



Instance Properties

Here is a curated list of notable parameters for the Revit user within the Caleffi 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit family.

Construction	
Recirculating System	This enables the recirculating connection
Vented Water Heater	This is active if Ventless Water Heater configuration is not selected
Ventless Water Heater	This enables Ventless Water Heater configuration
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	
Cold Water Direct Outlet Flow	This tells you the cold-water flow existing this component
Cold Water Inlet Flow	This tells you the cold-water flow entering this component
Cold Water Percentage	This tells you the percentage of cold water in tempered water flow
Hot Water Percentage	This tells you the percentage of hot water in tempered water flow
Cold Water Tempered Flow	This tells you the flow value through the bypass hose
Hot Water Inlet Flow	This tells you the hot water flow entering this component
Tempered Water Outlet Flow	This tells you the tempered water flow exiting this component
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 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kitfamily.

Materials	
Body Material	Metal - Caleffi - Brass
Fitting Material	Metal - Caleffi – Brass, Metal - Caleffi - Copper
Identity Data	
Assembly Code	D2090
Contact URL*	https://www.caleffi.com/usa/en-us/contacts/contact-us
Copyright*	©Caleffi North America
Cost	
Description	Water Heater Tank Mixing Valve, with Temperature Gauge
Family Version*	1
Keynote	
Manufacturer	Caleffi North America, Inc.
Model	290518A
Product Page URL*	https://www.caleffi.com/usa/en-us/products/search?query=290
Type Comments	
Type Image	
Series*	TankMixer™ 290
Standards*	IPC, UPC, NSF/ANSI/CAN 372, ASSE 1017, CSA B125.3
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

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

*Indicates Shared Parameter and can be scheduled. Product specifications documentation can be accessed using the Product Page URL.

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 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit in Revit, families and type catalogs where applicable 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.

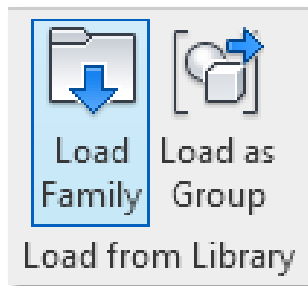


Figure 1 - Insert Tab > Load Family

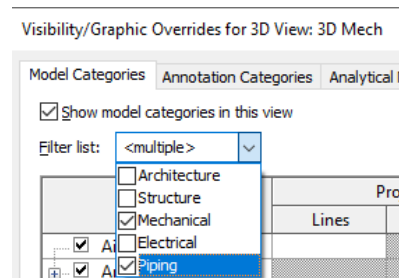
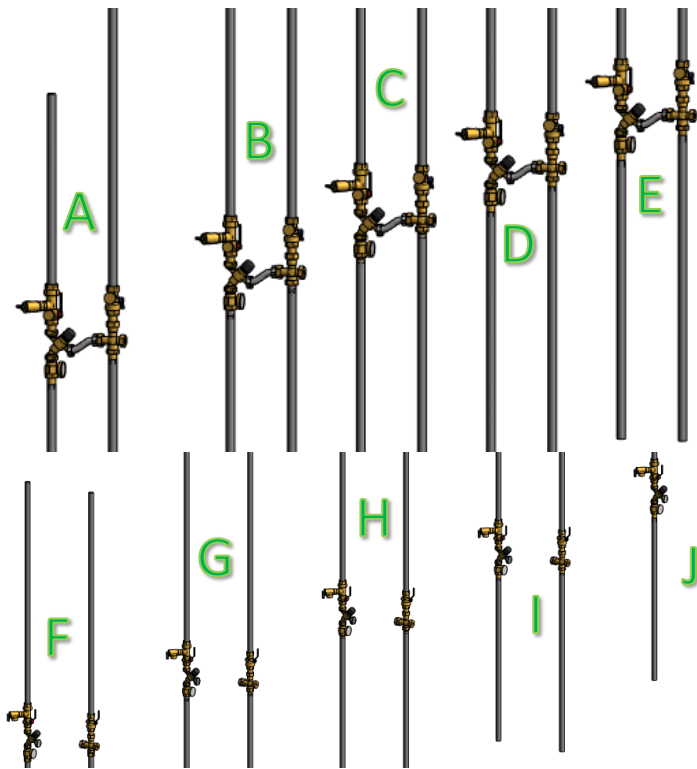


Figure 2 - Visibility/Graphic Overrides



- A. 290 Series with 0.75in. NPTF x NPTF connections
- B. 290 Series with 0.75in. NPTF x Press connections
- C. 290 Series with 0.75in. NPTF x Sweat connections
- D. 290 Series with 0.75in. NPTF x PEX Crimp connections
- E. 290 Series with 0.75in. NPTF x PEX Expansion connections
- F. 290 Series with 0.75in. NPTF x NPTF connections without Flex pipe
- G. 290 Series with 0.75in. NPTF x Press connections without Flex pipe
- H. 290 Series with 0.75in. NPTF x Sweat connections without Flex pipe
- I. 290 Series with 0.75in. NPTF x PEX Crimp connections without Flex pipe
- J. 290 Series with 0.75in. NPTF x PEX Expansion connections without Flex pipe

Figure 3 - Caleffi 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit

Project Behavior

One way to place a Caleffi 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit is to go to the Systems Tab on the Revit ribbon and navigate to the Component button with Place a component fly-out selected.

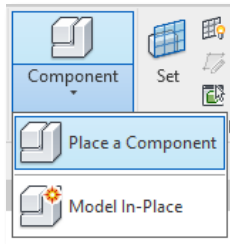


Figure 4 - Systems Tab > Component > Place a Component

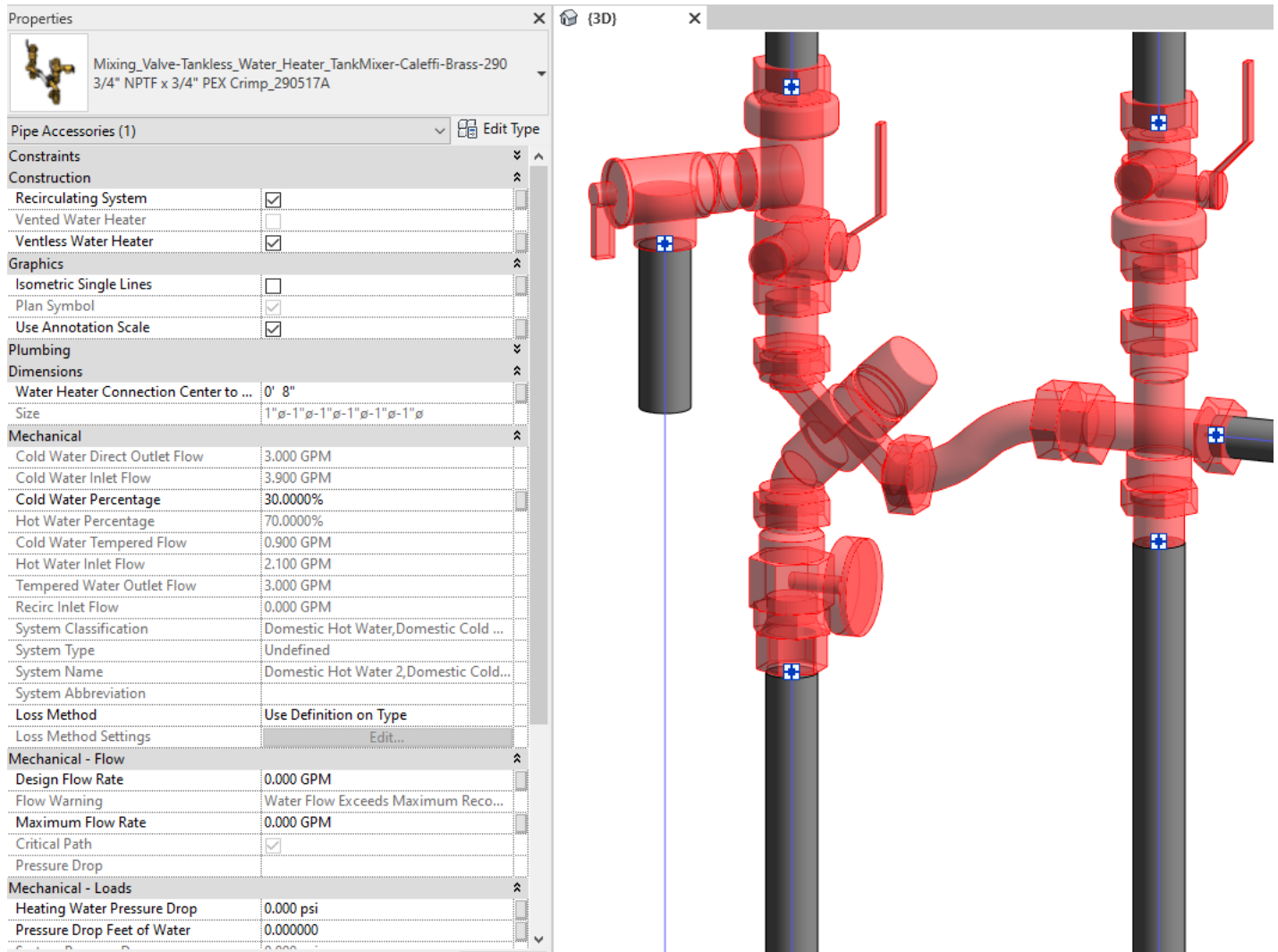


Figure 5 – The Caleffi 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit families can be found under pipe accessories in the project browser and placed directly onto pipe of the same size. It will then read flows and consider pressure 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 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit as well as separate quantities/counts of any separately purchased accessory products that do not come in box with the Caleffi 290 Series Tankless Water Heater Service Valve Kit with 520 Series Tankmixer and Tankless Water Heater Service Valve Kit.

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

