



Informal Interpretation Report Number 7718



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Edition 2014

Section 416.5

Question:

Is it the intent of this code section and code section 607.1.2 that only ASSE 1070, point-of-use tempering valves are acceptable and that the more robust commercial ASSE 1017 system tempering valves are now not acceptable in new construction?

Answer

No. The ASSE 1070 valves apply to the point of use. This is what FBCP 607.1.2 requires.

Commentary:

The ASSE 1017 devices are still required by FBCP 501.2 and FBCP 613.1. Both of these sections require the ASSE 1017 device to be installed at the source of hot water supply, i.e., the water heater.

Although it may not be clear in the Code, the intent of 607.1.2 is to provide scald protection from hot water sources that do not emanate from upstream devices that limit temperatures to defined limits. Where ASSE 1017 devices are provided at the source and where the setpoint of the ASSE 1017 device is such that there is no risk of scalding at the point of use, the point of use ASSE 1070 devices should not be required, because they would be redundant.

There are several differences in the ASSE 1017 and 1070 standards. 1017 devices (mixing valves) are usually installed at the hot water source, while 1070 devices are installed at the point of use, usually to further temper the water. 1070 devices are required at public handwashing facilities (416.5), bidets (408.3), and tub fillers (424.5).

To add to the confusion, some mixing valves are dual-listed to both 1017 and 1070. If such valves are installed at the hot water source, additional protection would still be required downstream for the above-mentioned fixtures.

Notice:

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