Minor editorial changes were made to Section 1.1 Purpose.

Under Section 1.2.2 Size Range, the connection pipe size is now defined in Table 1.

In Section 1.2.4 Temperature Range, the cold water range was increased from 110°F to 140°F and the hot water range was also increased from 140°F to 180°F.

In Table 1, changes were made to the metric values for Rated Flow, RP Max Allowed Pressure Loss at Rated Flow and RPF Max Allowable Pressure Loss at Rated Flow. Also, the values for RPF Maximum has been added to the Table for sizes ¾, 1, and 1 ¼.

Minor editorial changes were made to Sections 1.3.2.9 Shut-off Valves and 1.4 Reference Standards.

Under Section 2.1 Samples Submitted for Test, more information was added regarding additional orientations.

Under Section 2.4 Rejection, the following wording has been removed from that section, “until the manufacturer has corrected the fault and submitted new devices for testing.”

Section 2.6 Alternate Orientation, has been deleted from the update version.

Under Section 3.1, a new test entitled “Independence of Components” has been added.

For the Hydrostatic Test of Complete Device (Section 3.1 in old and 3.2 in new), the purpose now states that the assembly shall withstand pressures of 300 psi for RP assemblies and 350 psi for RPF assemblies. Modifications were also made to the test procedure since it no longer references Figure 1 but instead calls out the test procedure within the section.

For the Hydrostatic Test of Outlet Only (Section 3.2 in old and 3.3 in new), the purpose now states that the assembly shall withstand pressures of 300 psi for RP assemblies and 350 psi for RPF assemblies. More details were added to the test procedure section also referencing RP and RPF assemblies.

For the Allowable Pressure Loss at Rated Flow Test (Section 3.3 in old and 3.4 in new), in the purpose the following wording has been removed, “exceeds the stated maximum allowable pressure lose in Table 1 of this standard.” The following sentence was added to both procedure sections, “For the RDF assemblies, pressure loss at flow shall be
measured at increments of 5.0 gpm up to 50 gpm.” There were also some minor editorial changes regarding the valve numbers. Under the pass/fail criteria, in the sentence for RDF assemblies the words “shall not decrease” was changed to “shall generally increase” and the following was added to the end of the sentence “with a maximum total downward deviation of 10% from the highest previous value at any point.”

Figure 1 was slightly modified and a new Figure 1A was added to complement the Assembly on Test section.

For the Drip Tightness of Second Check Valve Test (Section 3.4 in old and 3.5 in new), some minor editorial changes regarding the valve numbers.

The Check Valve Performance Test (Section 3.5 in old), has been deleted from the updated version.

For the Intermediate Chamber Pressure vs. Inlet Pressure at Static Test (Section 3.6 in old and new), some minor editorial changes were made.

For the Relief Valve Discharge (Section 3.7 in old and new), some minor editorial changes were made. Also the title was changed to Relief Valve Discharge with Positive Supply Pressure.

In Table 2, changes were made to the metric values for Rated Flow through Relief Valve.

For the Relief Valve Discharge Test (Section 3.8 in old and new), some minor editorial changes were made. Also the title was changed to Relief Valve Discharge with Atmospheric Supply Pressure.

For the Relief Valve Opening and Inlet Check Valve Pressure Drop Test (Section 3.9 in old and new), some minor editorial changes regarding the valve numbers.

For the Relief Valve Location Test (Section 3.11 in old and new), a new subsection (a) was added to the procedure section regarding examining product drawing to verify the relief valve drains the water into the intermediate chamber. Also, the procedure no longer references Figure 3, the second check shall now hold 1 psi for an RP assembly and 0.5 for the RPF assembly and the following sentence was removed, “Apply a 25 inch mercury vacuum at the inlet.” The pass/fail criteria, was also modified.

The Testing for Alternate Orientation (Section 3.12 in old), has been deleted from the updated version.

For the Temperature Range Test (Section 3.15 in old and 3.13 in new), under the purpose section, the following wording “range none of the materials shall be adversely affected” has been changed to “as its maximum rated pressure, the assembly shall continue to meet the performance requirements of this standard.” Also the title was changed to Deterioration at Manufacturer’s Extremes of Temperature and Pressure Ranges.
Additional minor editorial changes were made within the procedure section. The following was added to the procedure and criteria sections, the second check shall now hold 1 psi for an RP assembly and 0.5 for the RPF assembly. More information was added to the procedure section regarding upon completion of the 80 hours of testing and retesting the assembly.

Figure 3 in the old version has been deleted from the new.

In Table 4, changes were made to the metric values for Minimum Hot Water Flow.

For the Cycle Test – Field Test (Section 3.16 in old and 3.14 in new), the word “minimum” was added after the time values throughout the procedure sections. Also under the procedure for Cycle Testing for Type RPF Devices Only, the flow water through the device at 25% of rated flow shall only be at 30 psi and not 30-60 psi. Also the back pressure and supply pressure was increased from 150 psi to 175 psi. A new subsection was added regarding USC FCCC&HR life cycle test protocol being acceptable.

For the Body Strength Test for Type RPF Assemblies Only (Section 3.17 in old and 3.15 in new), the following was added to the beginning of the procedure section, “Plug the inlet and outlet of the assembly. Open the shut-off valves on the assembly.”

For the Seat Adhesion Test for Type RPF Assemblies Only Test (Section 3.14 in old and 3.16 in new), additional information was inserted into the procedure section calling out what type of seat and disc shall be used in the test, the seat shall be made of copper alloy and the disc shall be made form a sulfur-cured elastomer. A note was also added the states, “This test may be performed on a different assembly from the assembly used for the previous performance tests.”

Under Section 4.1.1, the requirements for materials in contact with water, has been changed.

Under Section 4.2.1, an additional marking requirement, (h), was added that states, “Shut-off valves shall have its name or model number on the shut-off valve.”

In Section A1.1.2, the following was deleted from the section, “if the unit vents to atmosphere as an ASSE Standard 1013 device.”

The Pipe Fitting Installation requirements, was deleted under Section A1.1.4.

In Section A1.1.7 in the new and A1.1.8 in the old, the following sentence was added, “The relief valve discharge shall not be piped directly to a drain without a proper air gap.”

A new Section A1.1.8 was added to the updated version which states, “When assemblies are installed outdoors, enclosures shall comply with ASSE Standard #1016.”