Summary of Substantive Changes
Between the 2009 and the 2011 Editions of
ASSE 1013, “Reduced Pressure Principle Backflow Preventers and Reduced
Pressure Principle Fire Protection Backflow Preventers”

General: There are technical changes to this standard that may affect current listings, including the
addition of a requirement to have test cocks on the supply side of the inlet shut-off valve for RP
assemblies ½ in and smaller and the removal of a statement allowing metals in contact with potable
water to contain up to 8% lead. The conformance requirement for cast iron pipe flanges also changed
from ANSI B16.1 to ASTMA A126.

Table 1, Rated Water Flow and Maximum Allowable Pressure Loss for Various Sizes: Increased the rated
flow for ½ in devices from 6.0 gpm to 7.5 gpm, changed the values in the rated flow column from L/m to
L/s and increased the figure accuracy from the tenths to hundredths place.

Section 1.3.2.5, Test Cock Location: Removed the following requirements:
Test cocks shall be provided in the following locations:
(a) On the supply side of the inlet shut-off valve for RP assemblies larger than ½ inch (15 mm) in size.
(Not required on any sizes of type RPF assemblies.)

Table 2, Minimum Flow Rates Pressure Differential Relief Valve: Decreased the minimum flow through
3/8 in device from 1.5 to 1 GPM. Changed the values in the Rated Flow column from L/m to L/s and
increased the figure accuracy from the tenths to hundredths place.

Table 3, Minimum Hot Water Flow for Various Sizes: Changed the values in the rated flow column from
L/m to L/s and increased the figure accuracy from the tenths to hundredths place.

Section 3.17, Body Strength Test for Type RPF Assemblies
Section 3.17.2, Procedure: Decreased the required test pressure from 5 to 4 times the manufacturer’s
maximum rated pressure for sizes 6 in and smaller by removing the statement For sizes 6 inch (150 mm)
and smaller, increase the pressure to five (5) times the manufacturer’s maximum rated pressure and hold
for one (1) minute.

Section 4.1.1, Materials in Contact with Water: Changed as follows: Solder and fluxes containing lead in
excess of 0.2% shall not be used in contact with potable water. Metal alloys in contact with potable
water shall not exceed 8% lead.

Section 4.1.13, Pipe Flanges: Changed the conformance standard for iron flanges as follows, Pipe flanges
shall conform to ASME B16.24 for bronze flanges and ANSI B16.1 ASTM A126 for cast iron flanges.