

**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 ASTM 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.*