

**Summary of Substantive Changes  
between the 2009 and the 2011 editions of  
ASSE 1048, “Performance Requirements for Double Check Detector Fire  
Protection Backflow Prevention Assemblies”**

**General:** There are some technical changes to this standard. The scope of the standard was expanded to include NPS-1 and NPS-1-1/4 devices. The changes that may affect current listings include the removal of a statement allowing metals in contact with potable water to contain up to 8% lead and the requirement for cast iron flanges to conform to ASTM A126 (previously conforming to ANSI B16.1).

Table 1, Rated Water Flow and Maximum Allowable Pressure Loss for Various Sizes: Expanded the scope to include NPS-1 and NPS-1-1/4 devices. 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 2, Minimum Flow Rates Pressure Differential Relief Valve: Expanded the table to include NPS-1 and NPS-1-1/4 devices. 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 3.20, Body Strength Test:

Section 3.20.2, Procedure: Decreased the required test pressure from 5 to 4 times the manufacturers 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: Removed the Statement: ~~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 A 126](#) for cast iron flanges.*