



To: Manufacturers of backflow prevention assemblies

From: Paul H. Schwartz, Chief Engineer

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Subject: Evaluation Policy 14-003 - Change Approval from the 9<sup>th</sup> to the 10<sup>th</sup> Edition

This policy is being issued to provide clarification on the additional testing / evaluation that is required to change the Foundation's Approval of a backflow prevention assembly from the Manual of Cross-Connection Control 9<sup>th</sup> Edition to the 10<sup>th</sup> Edition.

The manufacturer of a backflow prevention assembly requesting a change of their Foundation Approval from the Manual of Cross-Connection Control 9<sup>th</sup> Edition to the 10<sup>th</sup> Edition must comply with the following:

1. The shutoff valve identification must comply with the identification requirements as per Manual – 10<sup>th</sup> Edition Section 10.1.1.2.17 Shutoff Valves, and Evaluation Policy #14-002 Shutoff Valve Marking.
2. Evaluate the backflow prevention assembly to the following:
  - a. Laboratory Evaluation tests - 10<sup>th</sup> edition:
    - i. Double Check Valve Assembly & Double Check Detector Assembly
      - 10.1.2.3.3.1 Hydrostatic
      - 10.1.2.3.3.2 Pressure loss vs flow rate
      - 10.1.2.3.3.3 Test cock continuous flow
      - 10.1.2.3.3.4 Closing point 1<sup>st</sup> check valve
      - 10.1.2.3.3.5 Closing point 2<sup>nd</sup> check valve
      - 10.1.2.3.3.6 Interdependence of components
    - ii. Reduced Pressure Principle Assembly & Reduced Pressure Principle Detector Assembly
      - 10.1.2.2.3.1 Hydrostatic
      - 10.1.2.2.3.2 Pressure loss vs flow rate
      - 10.1.2.2.3.3 Relief valve operation
      - 10.1.2.2.3.4 Relief valve sensitivity and test cock continuous flow
      - 10.1.2.2.3.5 Closing point 1<sup>st</sup> check valve
      - 10.1.2.2.3.6 Closing point 2<sup>nd</sup> check valve
      - 10.1.2.2.3.7 Interdependence of components
      - 10.1.2.2.3.9 Backpressure/Backsiphonage

- iii. Pressure Vacuum Breaker Assembly
  - 10.1.2.4.3.1 Hydrostatic
  - 10.1.2.4.3.2 Pressure loss vs flow rate
  - 10.1.2.4.3.3 Test cock continuous flow
  - 10.1.2.4.3.4 Air inlet opening point
  - 10.1.2.4.3.5 Check valve closing point
  - 10.1.2.4.3.6 Interdependence of components

- iv. Spill Resistant Pressure Vacuum Breaker Assembly
  - 10.1.2.8.3.1 Hydrostatic
  - 10.1.2.8.3.2 Pressure loss vs flow rate
  - 10.1.2.8.3.3 Test cock continuous flow
  - 10.1.2.8.3.4 Air inlet opening point
  - 10.1.2.8.3.5 Check valve closing point
  - 10.1.2.8.3.6 Interdependence of components

- b. Field Evaluation is not required
3. Evaluate bypass assemblies for DCDA & RPDA assemblies
- a. Item No. 1 above – Marking compliance
  - b. Item No. 2.a.i or 2.a.ii above