



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 9th to the 10th 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 9th Edition to the 10th Edition.

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

1. The shutoff valve identification must comply with the identification requirements as per Manual – 10th 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 - 10th 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 1st check valve
 - 10.1.2.3.3.5 Closing point 2nd 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 1st check valve
 - 10.1.2.2.3.6 Closing point 2nd 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