Field Test Procedure for ASSE 1015 (DC) Assemblies Using 5-Valve Test Kit

Flush Test Cocks (TC)

Step #1 - Install test adapters (if applicable)
Step #2 - Open TC #4; let trickle
Step #3 - Open TC #1; close
Step #4 - Open TC #2; close
Step #5 - Open TC #3; close
Step #6 - Close TC #4

Attach Test Kit

Step #1 - Close High, Low and Bypass valves and High and Low bleed valves on test kit
Step #2 - Attach High hose to TC #2
Step #3 - Attach Low hose to TC #3
Step #4 - Open TC #2
Step #5 - Open High bleed valve; bleed air; close
Step #6 - Open TC #3
Step #7 - Open Low bleed valve; bleed air; close
Step #8 - Attach Bypass hose to TC #4
Step #9 - Open High valve
Step #10 - Open Bypass valve
Step #11 - Loosen Bypass at TC #4; bleed air; tighten
Step #12 - Slowly open Low bleed valve to cause differential reading to rise; close

Test #1 -Tightness of #2 Shutoff Valve

Step #1 - Close #2 shutoff valve
Step #2 - Open TC #4
Step #3 - Close TC #2
(Pause to allow gauge to readjust)
Step #4 - Read differential gauge

Test Results: If differential gauge reading remains steady, record #2 shutoff valve as tight.

Test #2 - Tightness of #1 Check Valve

Step #1 - Close TC #4
Step #2 - Close High valve
Step #3 - Remove Bypass hose from TC #4

Step #4 - Open TC #2
Step #5 - Slowly open Low bleed valve to cause differential reading to rise; close

Test Results: Record gauge value. If differential reading holds steady at 1 psid or higher, record #1 check valve as tight.

Test #3 - Tightness of #2 Check Valve

Step #1 - Close TC #2 and TC #3
Step #2 - Remove High and Low hoses
Step #3 - Attach High hose to TC #3
Step #4 - Attach Low hose to TC #4
Step #5 - Open TC #3
Step #6 - Open High bleed valve; bleed air; close
Step #7 - Open TC #4
Step #8 - Open Low bleed valve; bleed air; close

Test Results: Record gauge value. If differential reading holds steady at 1 psid or higher, record #2 check valve as tight.

Restore System

Step #1 - Close all TC's
Step #2 - Remove hoses
Step #3 - Open all valves on test kit to drain water
Step #4 - Restore #2 shutoff valve to pre-test state

The tester shall provide copies of the test results to the owner and other appropriate parties as required.

The tester shall maintain a copy for his/her records in accordance with AHJ.

A shutoff valve on a fire sprinkler system shall never be left in the closed position.

— NOTES —

Field Test Procedure for ASSE 1015 (DC) Assemblies Using 3-Valve Test Kit

Flush Test Cocks (TC)

Step #1 - Install test adapters (if applicable)
Step #2 - Open TC #4; let trickle
Step #3 - Open TC #1; close
Step #4 - Open TC #2; close
Step #5 - Open TC #3; close
Step #6 - Close TC #4

Attach Test Kit

Step #1 - Close High and Low valves and open Bypass valve on test kit
Step #2 - Attach High hose to TC #2
Step #3 - Attach Low hose to TC #3
Step #4 - Open TC #2
Step #5 - Open High valve; bleed air; close
Step #6 - Open TC #3
Step #7 - Open Low valve; bleed air; close
Step #8 - Attach Bypass hose to TC #4
Step #9 - Open Low valve
Step #10 - Loosen Bypass hose at TC #4; bleed air; tighten
Step #11 - Close Low valve
Step #12 - Open High valve

Test #1 -Tightness of #2 Shutoff Valve

Step #1 - Close #2 shutoff valve
Step #2 - Open TC #4
Step #3 - Close TC #2
(pause to allow gauge to readjust)
Step #4 - Read differential gauge

Test Results: If differential gauge reading remains steady, record #2 shutoff as tight.

Test #2 - Tightness of #1 Check Valve

Step #1 - Close TC #4
Step #2 - Close High valve
Step #3 - Remove Bypass hose from TC #4
Step #4 - Open TC #2

Step #5 - Open Low valve to cause differential reading to rise; close

Test Results: Record gauge value. If differential reading holds steady at 1 psid or higher, record #1 check valve as tight.

Test #3 - Tightness of #2 Check Valve

Step #1 - Close TC #2 and TC #3
Step #2 - Remove High and Low hoses
Step #3 - Attach High hose to TC #3
Step #4 - Attach Low hose to TC #4
Step #5 - Open TC #3
Step #6 - Open High valve; bleed air; close
Step #7 - Open TC #4
Step #8 - Open Low valve; bleed air; close

Test Results: Record gauge value. If differential reading holds steady at 1 psid or higher, record #2 check valve as tight.

Restore System

Step #1 - Close all TCs
Step #2 - Remove hoses
Step #3 - Open all valves on test kit to drain water
Step #4 - Restore #2 shutoff valve to pre-test state

The tester shall provide copies of the test results to the owner and other appropriate parties as required.

The tester shall maintain a copy for his/her records in accordance with AHJ.

A shutoff valve on a fire sprinkler system shall never be left in the closed position.

— NOTES —