

# Field Test Procedure for ASSE 1020 (PVB) Assemblies Using 5-Valve Test Kit

## Flush Test Cocks (TC)

- Step #1 - Install test adapters (if applicable)
- Step #2 - Open TC #1; close
- Step #3 - Open TC #2; close

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

## Test #1 - Tightness of #2 Shutoff Valve

- Step #1 - Close #2 shutoff valve
- Step #2 - Open High valve
- Step #3 - Open Low valve  
(differential will read zero)
- Step #4 - Close High valve
- Step #5 - Close Low valve
- Step #6 - Close shutoff valve #1

**Test Results:** Record gauge value. If differential gauge reading does not rise above zero, record #2 shutoff as tight.

## Test #2 - Tightness of Check Valve

- Step #1 - Open shutoff valve #1
- Step #2 - Open Low bleed valve; close Low bleed valve

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

### **Test #3 - Air Inlet Opening**

- Step #1 - Close TC #1 and TC #2
- Step #2 - Remove hoses from TC #1 and TC #2
- Step #3 - Attach High hose to TC #2
- Step #4 - Remove air inlet canopy/hood
- Step #5 - Open TC #2
- Step #6 - Open High bleed valve; bleed air; close
- Step #7 - Close #1 shut off valve
- Step #8 - Center differential gauge at TC #2
- Step #9 - Open High bleed valve and record the differential gauge reading when the air inlet canopy/hood opens

**Test Results:** Record gauge value. If air inlet is visibly open, when differential reading is 1 psid or higher, record valve as passed.

Replace air inlet canopy/hood

### **Restore System**

- Step #1 - Close TC #2
- Step #2 - Remove High hose
- Step #3 - Open all valves on test kit to drain water
- Step #4 - Return 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.

— **NOTES** —

# Field Test Procedure for ASSE 1020 (PVB) Assemblies Using 3-Valve Test Kit

## Flush Test Cocks (TC)

- Step #1 - Install test adapters (if applicable)
- Step #2 - Open TC #1; close
- Step #3 - Open TC #2; close

## Attach Test Kit

- Step #1 - Close High and Low valves and open Bypass valve on test kit
- Step #2 - Attach High hose to TC #1
- Step #3 - Attach Low hose to TC #2
- Step #4 - Open TC #1
- Step #5 - Open High valve; bleed air; close
- Step #6 - Open TC #2
- Step #7 - Open Low valve; bleed air; close

## Test #1 - Tightness of #2 Shutoff Valve

- Step #1 - Close #2 shutoff valve
- Step #2 - Close Bypass valve
- Step #3 - Open High valve
- Step #4 - Open Low valve  
(differential will read zero)
- Step #5 - Close High valve
- Step #6 - Close Low valve
- Step #7 - Close shutoff valve #1

**Test Results:** If differential gauge reading does not rise above zero, record #2 shutoff valve as tight.

## Test #2 - Tightness of the Check Valve

- Step #1 - Open shutoff valve #1
- Step #2 - Open Bypass valve
- Step #3 - Open Low valve, bleed, close Low valve

**Test Results:** If there is a differential reading of 1 psid or higher after reading stabilizes, record check valve as tight.

### **Test #3 - Air Inlet Opening**

- Step #1 - Close TC #1 and TC #2
- Step #2 - Remove hoses from TC #1 and TC #2
- Step #3 - Attach High hose to TC #2
- Step #4 - Remove air inlet canopy/hood
- Step #5 - Open TC #2
- Step #6 - Open High valve; bleed air; close
- Step #7 - Close #1 shutoff
- Step #8 - Center differential gauge at TC #2
- Step #9 - Open High valve and record differential gauge reading when the air inlet canopy/hood opens

**Test Results:** Record gauge value. If air inlet is visibly open when differential reading is 1 psid or higher, record valve as passed.

Replace air inlet canopy/hood.

### **Restore System**

- Step #1 - Close TC #2
- Step #2 - Remove High hose
- Step #3 - Open all valves on test kit to drain water
- Step #4 - Restore 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.

— **NOTES** —