Trouble-Shooting Flow Chart for ASSE 1020 (PVB) Assemblies

Attach test kit

**Test #1**
Leak tight
#2 shutoff valve

1. Close #2 shutoff valve
2. Open High and Low valves to "0" the gauge
3. Close High and Low valves
4. Close Shutoff #1

Does gauge remain at "0"?

- **NO**  #2 shutoff valve is leaking. A no flow condition must be achieved by an additional downstream shutoff or repair of the #2 shutoff valve
- **YES**  #2 shutoff valve is leak tight

**TEST #2**
Check valve pressure differential

1. Open shutoff #1
2. Open Low bleed valve to increase reading
3. Close Low bleed valve

Does the gauge read ≥ 1 psid?

- **NO**  Check valve requires service; Check valve may be fouled with debris; OR Check valve seat or disk or both may be damaged
- **YES**  The check valve is working properly

**TEST #3**
Air inlet opening
Is the air inlet valve visually open & does the gauge indicate 1 psid or greater when the air inlet opens?

- **NO**
  1. Close TC #1 and TC #2
  2. Remove Low hose
  3. Move High hose to TC #2
  4. Remove canopy
  5. Open TC #2
  6. Bleed test kit
  7. Close #1 shutoff valve
  8. Center test kit at TC #2
  9. Open High valve

- **YES**
  The air inlet valve is working properly
  
  Remove test kit. Open #1 and #2 shutoff valves.

  **TEST COMPLETE**

  
  Restore Assembly to pre-test condition.

  
  **FAIL**

  
  The leaky #1 shutoff valve must be repaired or replaced, or a no flow condition must be achieved with an additional upstream shutoff.

  
  **FAIL**

  
  Gauge reading is below 1 psid and air inlet is closed

  
  Air inlet disk stuck to seat
  OR
  debris on seating surface
  OR
  debris on guide
  OR
  broken spring

  
  **FAIL**

  
  Gauge reading is above 1 psid and air inlet is closed

  
  **PASS**

  
  The air inlet valve is working properly

  
  Remove test kit. Open #1 and #2 shutoff valves.

  
  **TEST COMPLETE**

  
  Restore Assembly to pre-test condition.