

3-Valve Test Procedure for a Reduced Pressure Principal Backflow Preventer (RPBP) (Pressure Differential)

| PREPARING TO TEST THE ASSEMBLY | Test #2: BACKPRESSURE TEST FOR # 2 CHECK |
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| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Notify the customer <input type="checkbox"/> 2. Inspect the area for safety <input type="checkbox"/> 3. Determine if the assembly is Approved & Appropriate <input type="checkbox"/> 4. Record Make, Model #, Serial # & Assembly Type | <ul style="list-style-type: none"> <input type="checkbox"/> 1. If gauge Remains Steady during Test #1 & No Water is Dripping from the Relief Valve, the # 2 Check Valve is Considered to be Tight. |
| FLUSHING OF TEST COCKS | Test #3: CHECK VALVE #1 DIFFERENTIAL VALUE (5psid>) |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Place Test Adapters on Test Cocks (If Applicable) <input type="checkbox"/> 2. Open TC # 4 – Let flow <input type="checkbox"/> 3. Open TC # 1, then close <input type="checkbox"/> 4. Open TC # 2, then close <input type="checkbox"/> 5. Open TC # 3, then close <input type="checkbox"/> 6. Close TC # 4 <input type="checkbox"/> 7. Make sure High & Low Valves on the Gauge are CLOSED!! <input type="checkbox"/> Open Vent/Bypass Valve on gauge <input type="checkbox"/> 8. Close Shutoff valve #2 | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close TC#4 <input type="checkbox"/> 2. Close High Control Valve <input type="checkbox"/> 3. Remove Vent/Bypass hose from TC#4 <input type="checkbox"/> 4. Open TC # 2 <input type="checkbox"/> 5. Open Low Side Control Valve, to Cause Reading to Rise, Then Close... (Basically a Reset) <input type="checkbox"/> <u>Read the Gauge and Record Value</u> <ul style="list-style-type: none"> ○ A) If the Pressure Differential Gauge Reading is 5 PSID or Above, Record the #1 Check Valve as tight. |
| ATTACHING THE TEST KIT | Test #4: RELIEF VALVE OPENING VALUE |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Attach High Side Hose to TC # 2 <input type="checkbox"/> 2. Attach Low Side Hose to TC # 3 <input type="checkbox"/> 3. Slowly open TC#3 <input type="checkbox"/> 4. Open Low Side Control Valve (Leave Open) <input type="checkbox"/> 5. Open TC #2 <input type="checkbox"/> 6. Open High Side Control Valve, Bleed Air, Then Close <input type="checkbox"/> 7. Close Low Side Control Valve <input type="checkbox"/> 8. Close Vent/Bypass Valve on gauge | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close Vent/Bypass Valve on gauge <input type="checkbox"/> 2. Open High Control Valve <input type="checkbox"/> 3. S-L-O-W-L-Y Open Low Valve <input type="checkbox"/> 4. Place the Top of Your Hand Under the Relief (2psid>) <input type="checkbox"/> 5. As Soon as You Feel the First Drop of Water on Your Hand. <u>Read the Gauge and Record Value</u> <input type="checkbox"/> 6. Close High & Low Control Valves on the Gauge |
| Test #1: TIGHTNESS OF # 2 SHUT OF VALVE | Test #5: TIGHTNESS OF # 2 CHECK (1psid>) (SC Unique) |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Attach Vent/Bypass Hose to TC # 4 <input type="checkbox"/> 2. Open High Side Control Valve <input type="checkbox"/> 3. Open Vent/Bypass Valve on gauge <input type="checkbox"/> 4. Loosen Vent/Bypass Hose at TC # 4 to Bleed Air, Then Tighten <input type="checkbox"/> 5. Open TC # 4 <input type="checkbox"/> 6. Close TC # 2 – Pause to Allow Gauge to Readjust <input type="checkbox"/> 7. <u>Read the Gauge & Record</u> (ex: Closed Tight) <ul style="list-style-type: none"> ○ If the Pressure Differential Gauge Remains Steady, Record the #2 Shut Off Valve as Tight. | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close TC # 2 <input type="checkbox"/> 2. Close TC # 3 <input type="checkbox"/> 3. Remove Low Side Hose from TC # 3 and place it on TC # 4 <input type="checkbox"/> 4. Remove High Side Hose from TC # 2 and Place it on TC # 3 <input type="checkbox"/> 5. Open TC # 3 <input type="checkbox"/> 6. Open Vent/Bypass Valve on gauge <input type="checkbox"/> 7. Open High Side Control Valve – Bleed Air, Then Close <input type="checkbox"/> 8. Open TC # 4 <input type="checkbox"/> 9. Open Low Side Control Valve – Bleed Air, Then Close <input type="checkbox"/> 10. Close Vent/Bypass Valve on gauge <input type="checkbox"/> <u>11. Read the Gauge & Record Value</u> |
| | <p>RESTORE SYSTEM</p> <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close All Test Cocks <input type="checkbox"/> 2. Remove Hoses <input type="checkbox"/> 3. Open All Valves on the Test Kit and Drain Water <input type="checkbox"/> 4. Restore Water by Opening # 2 Shut Off Valve |

3 Valve Test Procedure for Double Check Valve Assembly (DCVA) (Pressure Differential)

| PREPERATION | Test #1: TIGHTNESS OF # 2 SHUT OF VALVE |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Notify the customer <input type="checkbox"/> 2. Inspect the area for safety <input type="checkbox"/> 3. Determine if the assembly is Approved & Appropriate <input type="checkbox"/> 4. Record Make, Model #, Serial # and on test report form | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Open TC # 4 <input type="checkbox"/> 2. Close TC # 2 – Pause to Allow Gauge to Readjust <input type="checkbox"/> 3. Read the Gauge & Record(Example: Tight) *If the Pressure Differential Gauge Remains Steady, Record the #2 Shut Off Valve as Tight. |
| FLUSHING OF TEST COCKS | Test #2 TIGHTNESS OF #1 CHECK |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Place Test Adapters on Test Cocks (if Applicable) <input type="checkbox"/> 2. Open TC # 1, Bleed, then Close <input type="checkbox"/> 3. Open TC # 2, Bleed, then Close <input type="checkbox"/> 4. Open TC # 3, Bleed, then Close <input type="checkbox"/> 5. Open TC # 4, Bleed, then Close <input type="checkbox"/> 6. Close High & Low control valves <input type="checkbox"/> 7. Leave Open Vent/Bypass valve <input type="checkbox"/> 8. Turn off Shut Off Valve # 2 on assembly | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close TC # 4 <input type="checkbox"/> 2. Close High Valve <input type="checkbox"/> 3. Remove Vent/Bypass Hose from TC #4 <input type="checkbox"/> 4. Open TC # 2 <input type="checkbox"/> 5. (Reset) Open Low Side Control Valve to Cause Differential Reading to Rise – Then Close <input type="checkbox"/> 6. Read the Gauge & Record Value <ul style="list-style-type: none"> ○ Pressure Differential Gauge Reading should be 1 PSID or Above. |
| ATTACHING THE TEST KIT | Test #3 TIGHTNESS OF # 2 CHECK |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Attach High Side Hose to TC # 2 <input type="checkbox"/> 2. Attach Low Side Hose to TC # 3 <input type="checkbox"/> 3. Open TC # 2 <input type="checkbox"/> 4. Open High Side Control Valve, Bleed Air, Then Close <input type="checkbox"/> 5. Open TC #3 <input type="checkbox"/> 6. Open Low Side Control Valve, Bleed Air, Then Close <input type="checkbox"/> 7. Attach Vent/Bypass Hose to TC # 4 <input type="checkbox"/> 8. Open Low Control Side Valve <input type="checkbox"/> 9. Loosen By-Pass Hose at TC # 4 to Bleed Air, Then Tighten <input type="checkbox"/> 10. Close Low Control Valve <input type="checkbox"/> 11. Open High Control Valve <input type="checkbox"/> 12. Record Static Working Pressure (If Required) | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close TC # 2 <input type="checkbox"/> 2. Close TC # 3 <input type="checkbox"/> 3. Remove Low Side Hose from TC # 3 and place it on TC # 4 <input type="checkbox"/> 4. Remove High Side Hose from TC # 2 and Place it on TC # 3 <input type="checkbox"/> 5. Open TC # 3 <input type="checkbox"/> 6. Open High Side Bleed Valve – Bleed Air, Then Close <input type="checkbox"/> 7. Open TC # 4 <input type="checkbox"/> 8. Open Low Side Bleed Valve – Bleed Air, Then Close <input type="checkbox"/> 9. Read the Gauge & Record Value <ul style="list-style-type: none"> A) If the Pressure Differential Gauge Reading Should be 1 PSID or Above. |
| | RESTORE SYSTEM |

3-Valve Test Procedure for a Double Check Valve Assembly (DCVA) (Direction of Flow)

| PREPARATION | TEST #2: CHECK VALVE #2 |
|---|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Notify customer <input type="checkbox"/> Inspect the area for safety <input type="checkbox"/> Determine if the assembly is Approved & Appropriate <input type="checkbox"/> Record Make, Model, Serial #, Size & Type <input type="checkbox"/> Install test adaptor fittings (if required) <input type="checkbox"/> Flush TC # 1, 2, 3, 4 <input type="checkbox"/> Open High & Low control valves and Bypass valve on gauge <p>*Attach High Hose Only on Gauge*</p> | <ul style="list-style-type: none"> <input type="checkbox"/> Move vertical tube from TC #3 to TC #4* <input type="checkbox"/> Move high hose from TC #2 to TC #3 <input type="checkbox"/> Open TC #3 slowly <input type="checkbox"/> Open high control valve then close high control valve <input type="checkbox"/> Open TC #4 to fill vertical tube <input type="checkbox"/> Close TC #4 <input type="checkbox"/> Close #1 shut-off valve <input type="checkbox"/> Open TC #4 <input type="checkbox"/> Record value of check valve #2 (1.0 psid or > to pass) |
| TEST #1: CHECK VALVE #1 | RECORD SHUT-OFF VALVES |
| <ul style="list-style-type: none"> <input type="checkbox"/> Install vertical tube on TC #3 * <input type="checkbox"/> Install High hose on TC #2 <input type="checkbox"/> Close Low control valve <input type="checkbox"/> Open TC #2 slowly <input type="checkbox"/> Close High control valve when air stops <input type="checkbox"/> Open TC #3 to fill vertical tube, then close <input type="checkbox"/> Close shut-off valve #2 <input type="checkbox"/> Record supply pressure (if required) <input type="checkbox"/> Close #1 shut-off valve <input type="checkbox"/> Center gauge with top of vertical tube <input type="checkbox"/> Open TC #3 <input type="checkbox"/> Record value of check valve #1 (1.0 psid. or > to pass) <input type="checkbox"/> Close TC #2 and TC #3 <input type="checkbox"/> Open #1 shut-off valve | <ul style="list-style-type: none"> <input type="checkbox"/> Record shut-off valve #1 & #2 <ul style="list-style-type: none"> <input type="checkbox"/> (closed tight or leaking) |
| | RESTORE SYSTEM |
| | <ul style="list-style-type: none"> <input type="checkbox"/> Close TC #3 & #4 <input type="checkbox"/> remove all hoses <input type="checkbox"/> Open shut-off valve #1 <input type="checkbox"/> Open shut-off valve #2 |

* OK to use test cocks as long as gauge can be centered on Test Cocks



3-Valve Test Procedure for a Pressure Vacuum Breaker Assembly (PVB)

(Direction of Flow)

| PREPERATION | TEST #2 - CHECK VALVE VALUE |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Notify the customer <input type="checkbox"/> 2. Inspect the area for safety <input type="checkbox"/> 3. Determine if the assembly is Approved & Appropriate <input type="checkbox"/> 4. Record Make, Model #, Serial # and Static Working Pressure on test report form <input type="checkbox"/> 5. Close All Valves on Test Gauge <input type="checkbox"/> 6. Remove Canopy and Clean Debris Around Air Inlet <input type="checkbox"/> 7. Flush TC#1 <input type="checkbox"/> 8. Flush TC#2 <input type="checkbox"/> 19. Turn Off The # 2 Shut off Valve <p style="text-align: center;"><u>*Attach High Hose Only on Gauge*</u></p> | <ul style="list-style-type: none"> <input type="checkbox"/> Attach High Side Hose to TC #1 <input type="checkbox"/> <u>SLOWLY</u> Open TC # 1 <input type="checkbox"/> Bleed Air, Then Close Vent/Bypass Valve <input type="checkbox"/> Turn Off The # 1 Shut off Valve <input type="checkbox"/> With the Gauge Centerline at Elevation of PVB <input type="checkbox"/> <u>SLOWLY</u> Open TC # 2 Fully and Record PSID Value When Water Stops Flowing from TC #2 <input type="checkbox"/> Close Both Test Cocks and Remove hose |
| TEST #1: AIR INLET OPENING | RESTORE SYSTEM |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Attach high hose to TC #2 <input type="checkbox"/> 2. SLOWLY - Open TC #2 <input type="checkbox"/> 3. Open High Side Control Valve <input type="checkbox"/> 4. Open Vent/Bypass Valve, Bleed Air <input type="checkbox"/> 5. Close Vent/Bypass valve <input type="checkbox"/> 6. Turn Off The # 1 Shut off Valve <input type="checkbox"/> 7. Center Gauge to PVB <input type="checkbox"/> 8. SLOWLY Open Vent/Bypass Valve and Observe PSID Recording when Air Inlet Pops (record Value) <input type="checkbox"/> 9. Close TC # 2 & Remove Hose <input type="checkbox"/> 10. Turn on the # 1 Shut off Valve | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Open Shut off Valve #1 First <input type="checkbox"/> 2. Open Shut off Valve #2 |



5-Valve Test Procedure for a Reduced Pressure Principal Backflow Preventer (RP)(Pres. Differential test)

| PREPARING TO TEST THE ASSEMBLY | Test#2 BACKPRESSURE ON # 2 CHECK VALVE |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Notify the customer <input type="checkbox"/> Inspect the area for safety <input type="checkbox"/> Determine if the assembly is Approved & Appropriate <input type="checkbox"/> Record Make, Model #, Serial # & Assembly Type | <ul style="list-style-type: none"> <input type="checkbox"/> 1. If gauge is steady during test #1 and No Water is Dripping from the Relief Valve, the # 2 Check Valve is Considered to be Tight. |
| FLUSHING OF TEST COCKS | Test #3. DIFFERENTIAL VALUE ON # 1 CHECK VALVE (5psid>) |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Place Test Adapters on Test Cocks 1, 2, 3, and 4 <input type="checkbox"/> 2. Open TC # 4 – Let flow <input type="checkbox"/> 3. Open TC # 1, then close <input type="checkbox"/> 4. Open TC # 2, then close <input type="checkbox"/> 5. Open TC # 3, then close <input type="checkbox"/> 6. Close TC # 4 <input type="checkbox"/> 7. Make sure all 5 Valves on the Gauge are CLOSED!!! | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close the By-Pass Valve!!! – <u>Close the By-Pass</u> <input type="checkbox"/> 2. Open TC # 2 <input type="checkbox"/> 3. Open Low Side Bleed Valve, to Cause Reading to Rise, Then Close Low Side Bleed Valve <input type="checkbox"/> <u>Read the Gauge and Record Value</u> <ul style="list-style-type: none"> A) If the Pressure Differential Gauge Reading is 5 PSID or Above, Record the #1 Check Valve as tight. |
| ATTACHING THE TEST KIT | Test #4. RELIEF VALVE OPENING POINT(2psid>) |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Attach High Side Hose to TC # 2 <input type="checkbox"/> 2. Attach Low Side Hose to TC # 3 <input type="checkbox"/> 3. Slowly open TC#3 <input type="checkbox"/> 4. Open Low Side Bleed Valve (Leave Open) <input type="checkbox"/> 5. Open TC #2 <input type="checkbox"/> 6. Open High Side Bleed Valve, Bleed Air, Then Close <input type="checkbox"/> 7. Close Low Side Bleed Valve <input type="checkbox"/> 8. Attach By-Pass Hose to TC # 4 <input type="checkbox"/> 9. Open High Side Control Valve (one full turn) <input type="checkbox"/> 10. Open By-Pass Valve (1/4 Turn) <input type="checkbox"/> 11. Loosen By-Pass Hose at TC # 4 to Bleed Air, Then Tighten <input type="checkbox"/> 12. S-L-O-W-L-Y Open Low Side Bleed Valve to Cause Differential Reading to Rise – Then Close (Reset) <input type="checkbox"/> 13. Record System Pressure (If Required) | <ul style="list-style-type: none"> <input type="checkbox"/> <u>1. Place the Top of Your Hand Under the Relief</u> <input type="checkbox"/> 2. S-L-O-W-L-Y Open Low Valve <input type="checkbox"/> 3. As Soon as You Feel the First Drop of Water on Your Hand. <u>Read the Gauge and Record Value(2psid>)</u> <input type="checkbox"/> Close Low Control Valve |
| Test #5. TIGHTNESS OF # 2 CHECK (1psid>) | |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close TC # 2 <input type="checkbox"/> 2. Close TC # 3 <input type="checkbox"/> 3. Close TC # 4 <input type="checkbox"/> 4. Remove By-pass Hose from TC # 4 <input type="checkbox"/> 5. Remove Low Side Hose from TC # 3 and place it on TC # 4 <input type="checkbox"/> 6. Remove High Side Hose from TC # 2 and Place it on TC # 3 <input type="checkbox"/> 7. Open TC # 3 <input type="checkbox"/> 8. Open High Side Bleed Valve – Bleed Air, Then Close <input type="checkbox"/> 9. Open TC # 4 <input type="checkbox"/> 10. Open Low Side Bleed Valve – Bleed Air, Then Close <input type="checkbox"/> <u>9. Read the Gauge & Record Value</u> <input type="checkbox"/> | <ul style="list-style-type: none"> <input type="checkbox"/> |
| Test #1. TIGHTNESS OF # 2 SHUT OFF VALVE | RESTORE SYSTEM |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close Shutoff valve #2 <input type="checkbox"/> 2. Open TC # 4 <input type="checkbox"/> 3. Close TC # 2 – Pause to Allow Gauge to Readjust <input type="checkbox"/> <u>4. Read the Gauge & Record (ex: Closed Tight)</u> <ul style="list-style-type: none"> • If the Pressure Differential Gauge Remains Steady, Record the #2 Shut Off Valve as Tight. Test procedure PASSES; • If the Pressure Differential Gauge Drops to ZERO and no water is coming from the relief valve, this means the #2 Shut Off Valve is Not Holding. Assembly is not in a static condition. | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close All Test Cocks <input type="checkbox"/> 2. Remove Hoses <input type="checkbox"/> 3. Open All Valves on the Test Kit and Drain Water <input type="checkbox"/> 4. Restore Water to Building by Opening # 2 Shut Off Valve on Assembly |

5-Valve Test Procedure / Double Check Valve Assembly (Pressure Differential test)

| PREPARING TO TEST THE ASSEMBLY | Test #1 TIGHTNESS OF # 2 SHUT OF VALVE |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Notify the customer <input type="checkbox"/> 2. Inspect the area for safety <input type="checkbox"/> 3. Determine if the assembly is Approved & Appropriate <input type="checkbox"/> 4. Record Make, Model #, Serial # and Static Working Pressure on test report form | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Turn Off Shut Off Valve # 2 <input type="checkbox"/> 2. Open TC # 4 <input type="checkbox"/> 3. Close TC # 2 – Pause to Allow Gauge to Readjust <input type="checkbox"/> 4. Read the Gauge & Record (Example: Tight) *If the Pressure Differential Gauge Remains Steady, Record the #2 Shut Off Valve as Tight. |
| FLUSHING OF TEST COCKS | Test #2 TIGHTNESS OF #1 CHECK |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Place Test Adapters on Test Cocks (TC) 1, 2, 3, and 4 – (If Applicable) <input type="checkbox"/> 2. Open TC # 1, Bleed, then Close <input type="checkbox"/> 3. Open TC # 2, Bleed, then Close <input type="checkbox"/> 4. Open TC # 3, Bleed, then Close <input type="checkbox"/> 5. Open TC # 4, Bleed, then Close <input type="checkbox"/> 6. Make sure all 5 valves on Gauge are closed | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close TC # 4 <input type="checkbox"/> 2. Close High Valve <input type="checkbox"/> 3. Remove By-Pass Hose from TC #4 <input type="checkbox"/> 4. Open TC # 2 <input type="checkbox"/> 5. S-L-O-W-L-Y Open Low Side Bleed Valve to Cause Differential Reading to Rise – Then Close <input type="checkbox"/> 6. Read the Gauge & Record Value The Pressure Differential Gauge Reading should be 1 PSID or Above. |
| ATTACHING THE TEST KIT | Test #3 TIGHTNESS OF # 2 CHECK |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Attach High Side Hose to TC # 2 <input type="checkbox"/> 2. Attach Low Side Hose to TC # 3 <input type="checkbox"/> 3. Open TC # 2 <input type="checkbox"/> 4. Open TC #3 <input type="checkbox"/> 5. Open High Side Bleed Valve, Bleed Air, Then Close <input type="checkbox"/> 6. Open Low Side Bleed Valve, Bleed Air, Then Close <input type="checkbox"/> 7. Attach By-Pass Hose to TC # 4 <input type="checkbox"/> 8. Open High Side Valve (1/4 Turn) <input type="checkbox"/> 9. Open By-Pass Valve <input type="checkbox"/> 10. Loosen By-Pass Hose at TC # 4 to Bleed Air, Then Tighten <input type="checkbox"/> 11. S-L-O-W-L-Y Open Low Side Bleed Valve to Cause Differential Reading to Rise – Then Close | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close TC # 2 <input type="checkbox"/> 2. Close TC # 3 <input type="checkbox"/> 3. Remove Low Side Hose from TC # 3 and place it on TC # 4 <input type="checkbox"/> 4. Remove High Side Hose from TC # 2 and Place it on TC # 3 <input type="checkbox"/> 5. Open TC # 3 <input type="checkbox"/> 6. Open High Side Bleed Valve – Bleed Air, Then Close <input type="checkbox"/> 7. Open TC # 4 <input type="checkbox"/> 8. Open Low Side Bleed Valve – Bleed Air, Then Close <input type="checkbox"/> 9. Read the Gauge & Record Value A) If the Pressure Differential Gauge Reading Should be 1 PSID or Above. |
| | RESTORE SYSTEM |
| | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close All Test Cocks <input type="checkbox"/> 2. Remove Hoses <input type="checkbox"/> 3. Open All Valves on the Test Kit and Drain Water <input type="checkbox"/> 4. Restore Water to building by Opening # 2 Shut Off Valve on Assembly |

5-Valve Test Procedure for a Double Check Valve Assembly (DCVA) (Direction of Flow test)

| Preparation | Check Valve #2 |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Notify customer <input type="checkbox"/> 2. Inspect the area for safety <input type="checkbox"/> 3. Determine if the assembly is Approved & Appropriate <input type="checkbox"/> 4. Record Make, Model, Serial #, Size & Type <input type="checkbox"/> 5. Install test adapter fittings (if required) <input type="checkbox"/> 6. Flush TC # 1, 2, 3, 4 <input type="checkbox"/> 7. close all valves on gauge | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Move vertical tube from TC #3 to TC #4* <input type="checkbox"/> 2. Move high hose to TC #3 <input type="checkbox"/> 3. Open high bleed valve <input type="checkbox"/> 4. Open TC #3 slowly <input type="checkbox"/> 5. close high bleed valve when air stops <input type="checkbox"/> 6. Open TC #4 to fill vertical tube <input type="checkbox"/> 7. Close TC #4 <input type="checkbox"/> 8. Close shut-off valve #1 <input type="checkbox"/> 9. Center gauge with top of vertical tube <input type="checkbox"/> 10. Open TC #4 <input type="checkbox"/> 11. Record status of check valve #2 (closed tight @ 1psid> or leaking) |
| Test #1: Check Valve #1 | Condition of Shut Off Valves |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Install vertical tube on TC #3 <input type="checkbox"/> 2. Open High bleed valve on gauge <input type="checkbox"/> 3. Attach high hose to TC #2 <input type="checkbox"/> 4. Open TC #2 slowly <input type="checkbox"/> 5. Close high bleed valve when air stops <input type="checkbox"/> 6. Open TC #3 to fill vertical tube <input type="checkbox"/> 7. Close TC #3 <input type="checkbox"/> 8. Close shut-off valve #2 <input type="checkbox"/> 9. Record service line pressure (if Required) <input type="checkbox"/> 10. Close shut-off valve #1 <input type="checkbox"/> 11. Center gauge with top of vertical tube <input type="checkbox"/> 12. Open TC #3 <input type="checkbox"/> 13. Record status of check valve #1 (closed tight @ 1psid> or leaking) <input type="checkbox"/> 14. Close TC #2 and TC #3 <input type="checkbox"/> 15. Open shut-off valve #1 | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Close TC #3 & #4 <input type="checkbox"/> 2. Remove all hoses <input type="checkbox"/> 3. Open shut-off valve #1 <input type="checkbox"/> 4. Open shut-off valve slowly #2 |
| | Final |
| | <ul style="list-style-type: none"> <input type="checkbox"/> Close TC #3 & #4 <input type="checkbox"/> Remove all hoses <input type="checkbox"/> Open shut-off valve #1 <input type="checkbox"/> Open shut-off valve slowly #2 |



5 - Valve Test Procedure (PVB)(Direction of Flow)

| PREPERATION | STEP # 2 - Check Valve Value |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Notify the customer <input type="checkbox"/> 2. Inspect the area for safety <input type="checkbox"/> 3. Determine if the assembly is Approved & Appropriate <input type="checkbox"/> 4. Record Make, Model #, Serial # and Static Working Pressure on test report form <input type="checkbox"/> 5. Close All Valves on Test Gauge <input type="checkbox"/> 6. Remove Low Side Hose from Gauge (if on gauge) <input type="checkbox"/> 7. Remove Canopy and Clean Debris Around Air Inlet <input type="checkbox"/> 8. Flush TC#1 <input type="checkbox"/> 9. Flush TC#2 <input type="checkbox"/> 10. Turn Off The # 2 Shut off Valve <input type="checkbox"/> 11. Open High Side Bleed Valve | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Attach High Side Hose to TC #1 <input type="checkbox"/> 2. SLOWLY Open TC # 1 <input type="checkbox"/> 3. Close High Side Bleed Valve <input type="checkbox"/> 4. Turn Off The # 1 Shut off Valve <input type="checkbox"/> 5. Center Gauge with PVB <input type="checkbox"/> 6. SLOWLY Open TC # 2 and Record PSID Value When Water Stops Flowing from TC #2 <input type="checkbox"/> 7. Close TC #2 & TC #1 <input type="checkbox"/> 8. Remove Hose from TC#1 |
| TEST # 1 : Air Inlet Opening | Restore system by: |
| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Attach high hose to TC #2 <input type="checkbox"/> 2. SLOWLY - Open TC #2 <input type="checkbox"/> 3. Close High Side Bleed Valve (when air stops) <input type="checkbox"/> 4. Turn Off The # 1 Shut off Valve <input type="checkbox"/> 5. Center Gauge with PVB <input type="checkbox"/> 6. SLOWLY Open High Side Bleed Valve and Observe PSID Recording when Air Inlet Pops <input type="checkbox"/> 7. Close TC # 2 <input type="checkbox"/> 8. Turn on the # 1 Shut off Valve | <ul style="list-style-type: none"> <input type="checkbox"/> 1. Open the # 1 Shut off Valve First <input type="checkbox"/> 2. Open the # 2 Shut off Valve |

