# Orange County Backflow Tester: Online Refresher Class



2022/2023

## Agenda

- I. Instructions
- II. Backflow Testing Review
  - RP, DC, SVB, PVB
- III. Backflow Testing Proper Position and Handling of Gauge
- IV. Submittal of Test Reports
- V. Certification Testing
- VI. Recertification Testing
- VII. Enforcement
- VIII. FAQs
- IX. Coming Soon
- X. Quiz!



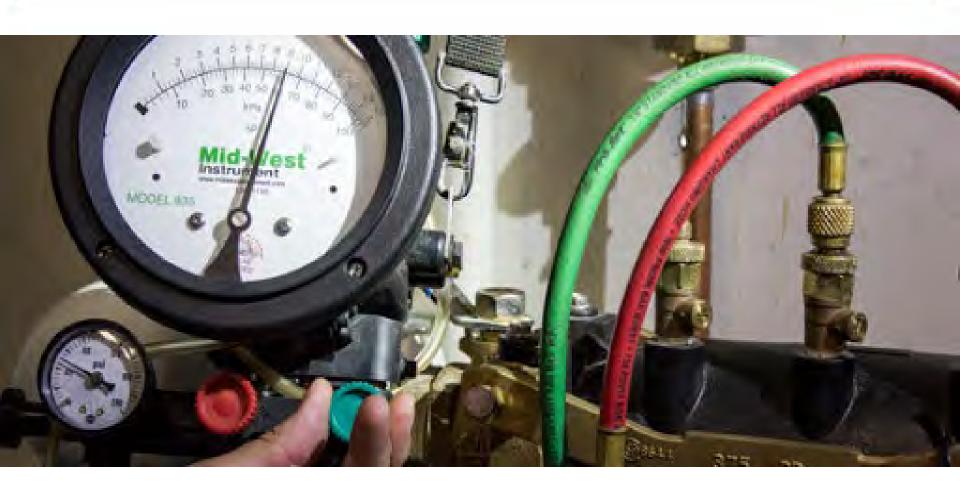


### I. Instructions

- 1. Please read the chapters presented in this training very carefully.
- 2. Once you have completed the training, please complete the attached quiz and email the completed quiz to <a href="https://ocean.com/OCBackFlowTests@OCHCA.com">OCBackFlowTests@OCHCA.com</a>. You must get at least 70% or above on the quiz. The quiz is open book and presentation, but please complete it yourself.
- 3. You will receive a training certificate by email once we receive and review your passing quiz.
- -Please contact us at <a href="OCBackFlowTests@OCHCA.com">OCBackFlowTests@OCHCA.com</a> if you have any questions and type "2022 Backflow Tester Training" in the Subject line of the email.
- \*NOTE: Orange County Health Care Agency= OCHCA (the health department)



# **II. Backflow Testing Review**





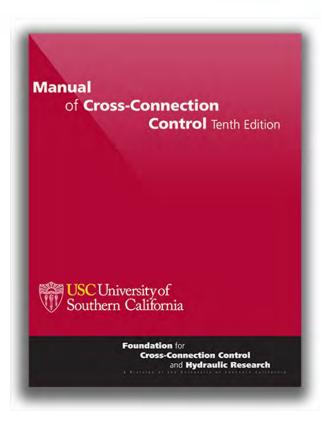
# **Backflow Testing Review- Gauges**

### **Approved Gauges and Proof of Calibration**

- Approved Gauges can be found at:
  - USC Foundation of Cross-Connection Control and Hydraulic Research <a href="https://fccchr.usc.edu/fieldtestkitslist.html">https://fccchr.usc.edu/fieldtestkitslist.html</a>
    - ▶ Refer to the USC Manual of Cross-Connection Control 10<sup>th</sup> Edition Chapter 10.2 for a standard for a field test kit.

### Proof of Calibration

 Your test gauge must be within the calibration period (typically 1 year) to be used for testing devices and for certification.





### **Backflow Testing Review- Gauges**



Foundation for Cross-Connection Control and Hydraulic Research

a Division of the University of Southern California

### **List of Approved Field Test Kits**

10 December 2019

SUPERSEDES ALL PRIOR LISTS

#### About the USC LIST OF APPROVED FIELD TEST KITS

The USC List of Approved Field Test Kits includes differential pressure gage field test kits (field test kits) that have successfully completed the laboratory evaluation of the USC Foundation's Approval Program for field test kits.

With the release of the Manual of Cross-Connection Control, Tenth Edition, the USC Foundation introduced a standard for a field test kit. The standard of evaluation can be found in the Manual, Chapter 10.2. The standard consists of design requirements, material requirements and performance requirements.

Each field test kit is listed by manufacturer's name, make, model, configuration (number of needle valves), edition of the Manual under which the field test kit was approved, approval date, and the latest renewal date.

PLEASE NOTE: LOCAL ADMINISTRATIVE AUTHORITIES DETERMINE WHICH FIELD TEST KITS ARE ACCEPTABLE IN THEIR AREA OF JURISDICTION. PLEASE CHECK WITH THE LOCAL ADMINISTRATIVE AUTHORITY TO SEE IF A FIELD TEST KIT IS ACCEPTABLE.

Manufacturer: Arbiter

Make: Mako

Model: MK5

Configuration: 5

Manual: 10

Approved: 10-Dec-2019

Renewed

Notes:

#### Manufacturers of Field Test Kits

Arbiter incorporated https://arbiterbackflow.com/ 615 E. 1st Avenue Camas, WA 98607 (503) B47-4936

https://fccchr.usc.edu/fieldtestkitslist.html





### List of Approved Field Test Kits

A field test kit is an essential tool for any backflow prevention assembly tester. The field test kit is the gage equipment used to field test a backflow prevention assembly. The field test kit is a visual indicator, designed to measure the difference between two pressure points. For example, a backflow tester uses a field test kit to measure the difference in pressure across the check valves inside an assembly.

The USC List of Approved Field Test Kits includes differential pressure gage field test kits (field test kits) that have successfully completed the laboratory evaluation of the USC Foundation's Approval Program for field test kits.

With the release of the Manual of Cross-Connection Control, Tenth Edition, the USC Foundation introduced a standard for a field test kit. The standard of evaluation can be found in the Manual, Chapter 10.2. The standard consists of design requirements, material requirements and performance requirements.

In order for a field test kit to be USC Approved, it must be comprised of all the original needle valves, connecting hoses and differential pressure gage body. Since the field test kits were evaluated at the Foundation laboratory with needle valves and connecting hoses provided by the manufacturer, it can only be considered USC Approved with the needle valves and connecting hoses provided by the manufacturer for that field test kit. Using other connecting hoses or needle valves that were not included from the manufacturer with the USC Approved field test kit invalidates the USC Approved.

#### Download Now

PDF (Complete List)

#### Added Benefit for USC Foundation Members

Members of the USC Foundation receive an e-mail notification every time the List has been updated

Current members are urged to sign up for the notifications.

A company, which is a USC Foundation member, may extend this benefit to any of its employees.

If you are interested in becoming a USC Foundation member please click HERF

# **Backflow Testing Review:** *RP*





### Backflow Testing Review: RP

### Equipment required:

- An approved and calibrated Differential Pressure Gauge
- 3 high pressure hoses (1/4"D x 6 ft. long)
- Adapter fittings for each size test cock



### **Backflow Testing Review:** *RP*

# **Preliminary Steps**

- Notify- Inform your contact at the location that you are there to preform the test on the backflow device and if the water service will be interrupted
- Identify- Locate and verify the make, model number, size, and serial number of the device to be tested
- Inspect- Ensure that the device has all the required components and that the test can be conducted
- Observe- inspect the area around the assembly and if it is safe to proceed with the test.

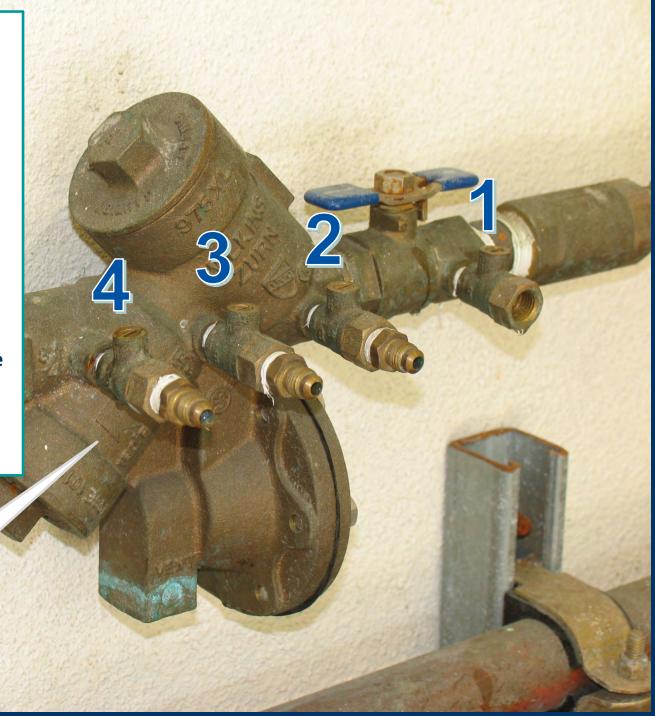




- Direction of flow
- Leaky test cocks
- Relief valve discharging
- Shutoff valves close/open
- Any hoses connected to the device
- When testing a RPDA type I, you test the main assembly first, then the main RP (page 322)

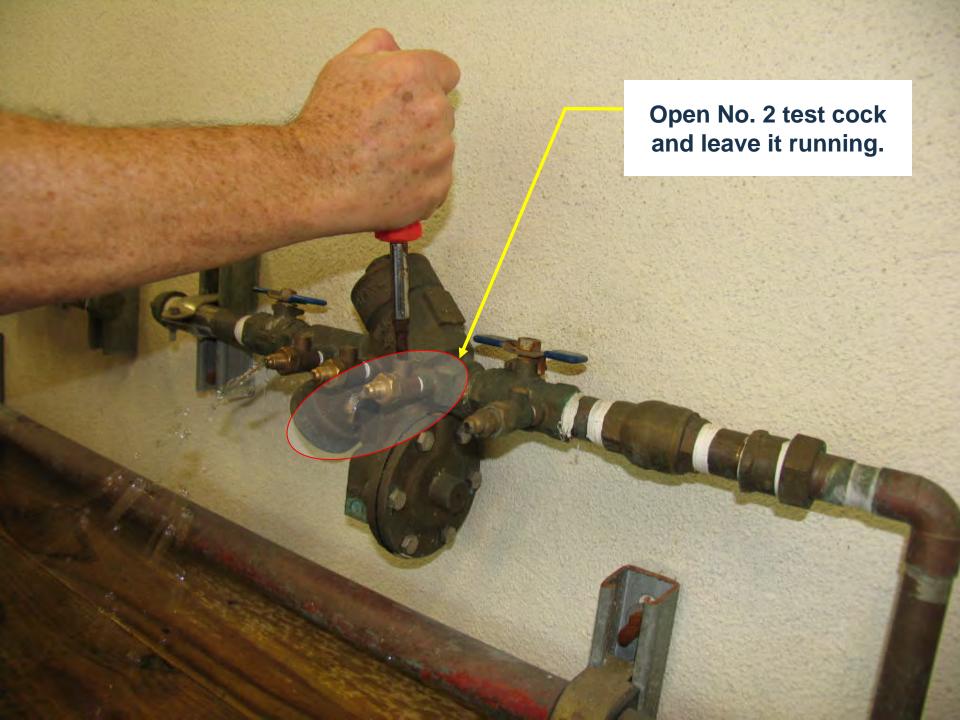
• Etc.

Direction of flow



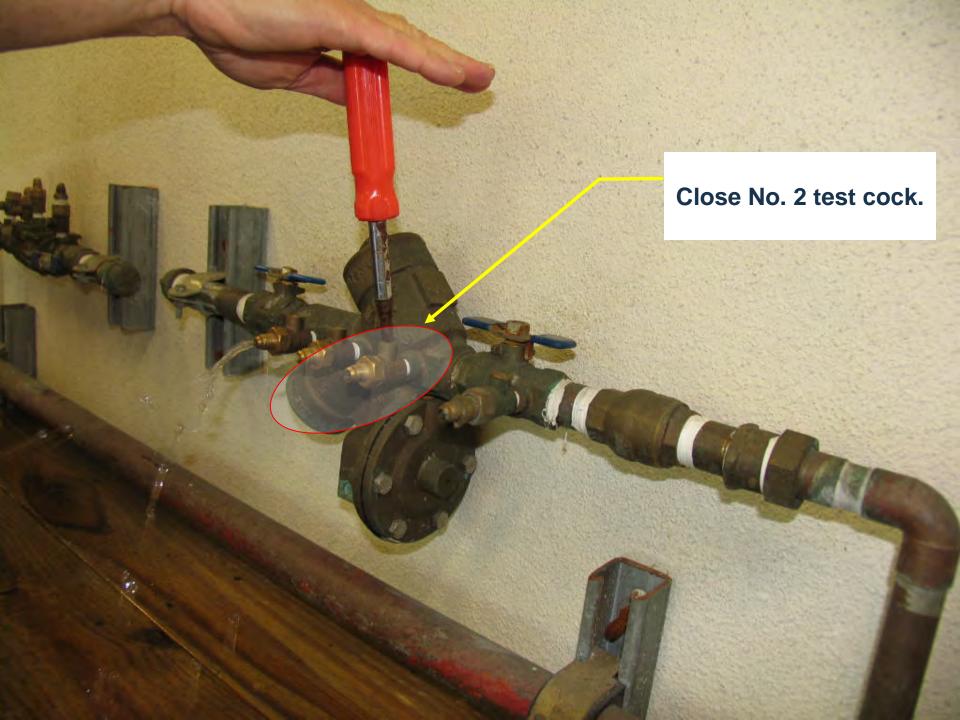


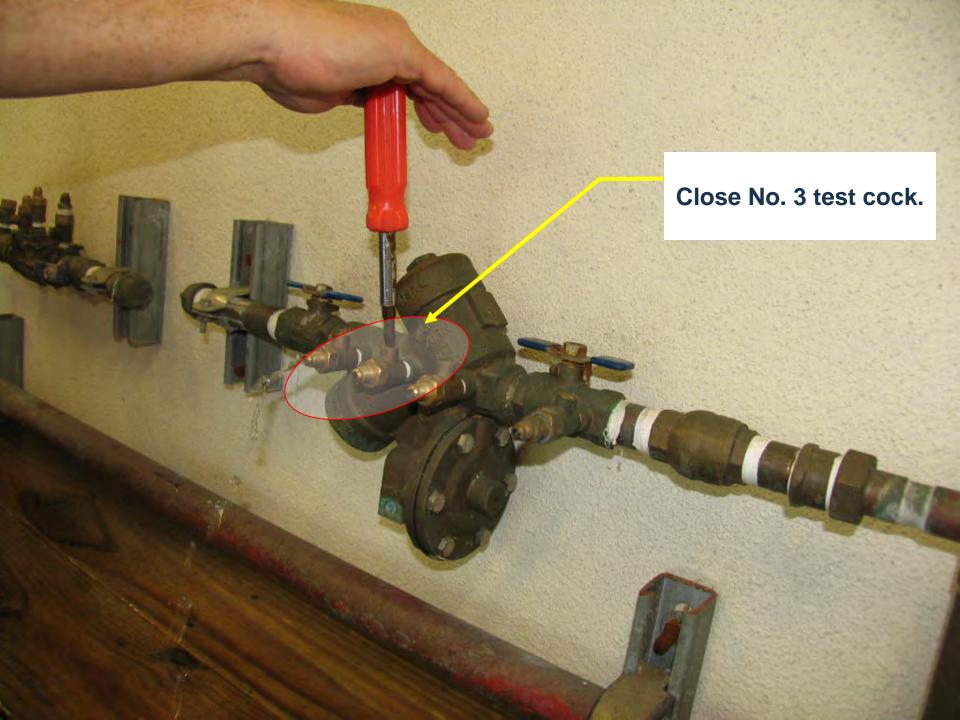




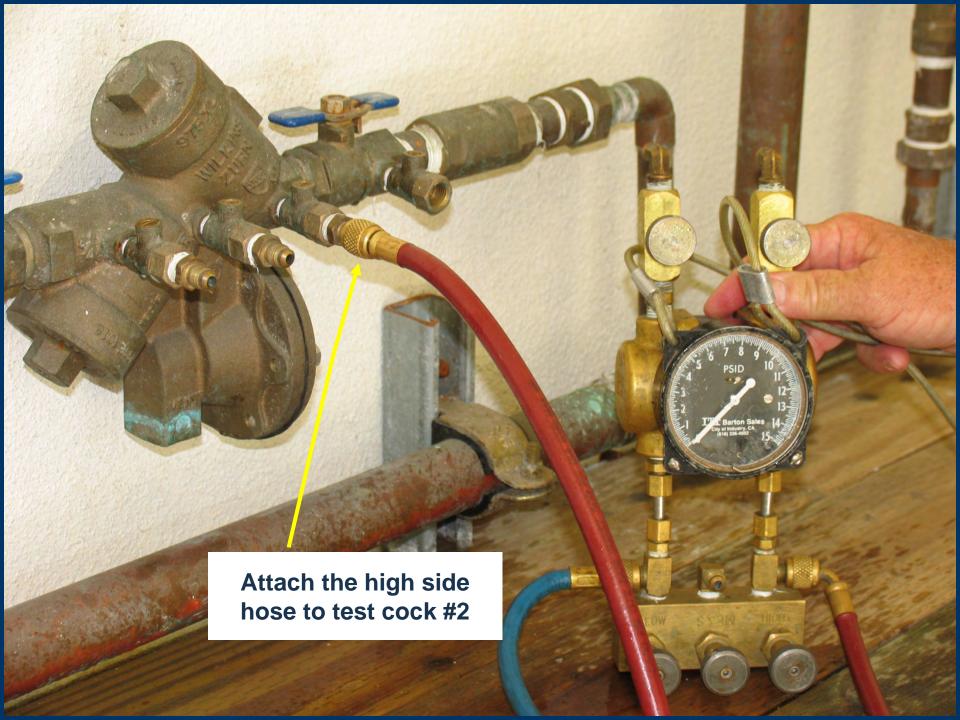


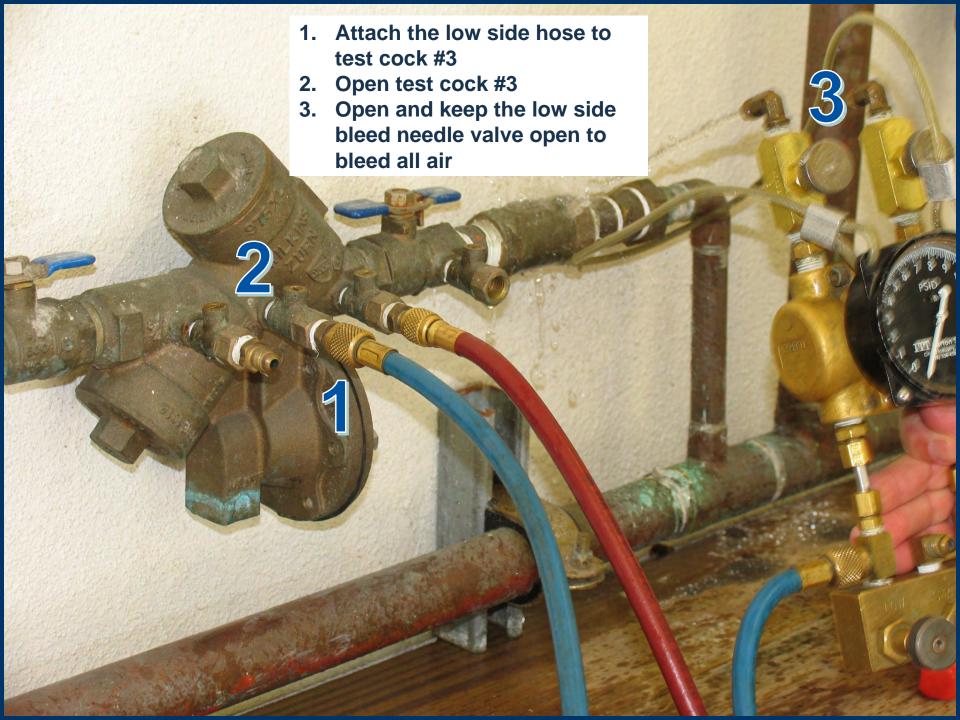


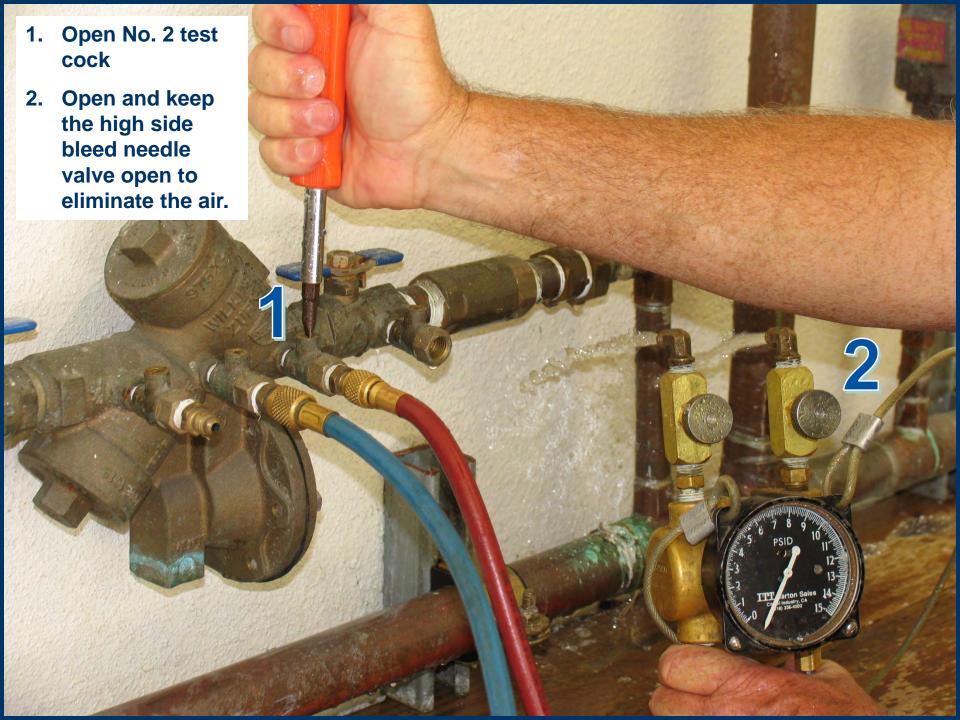


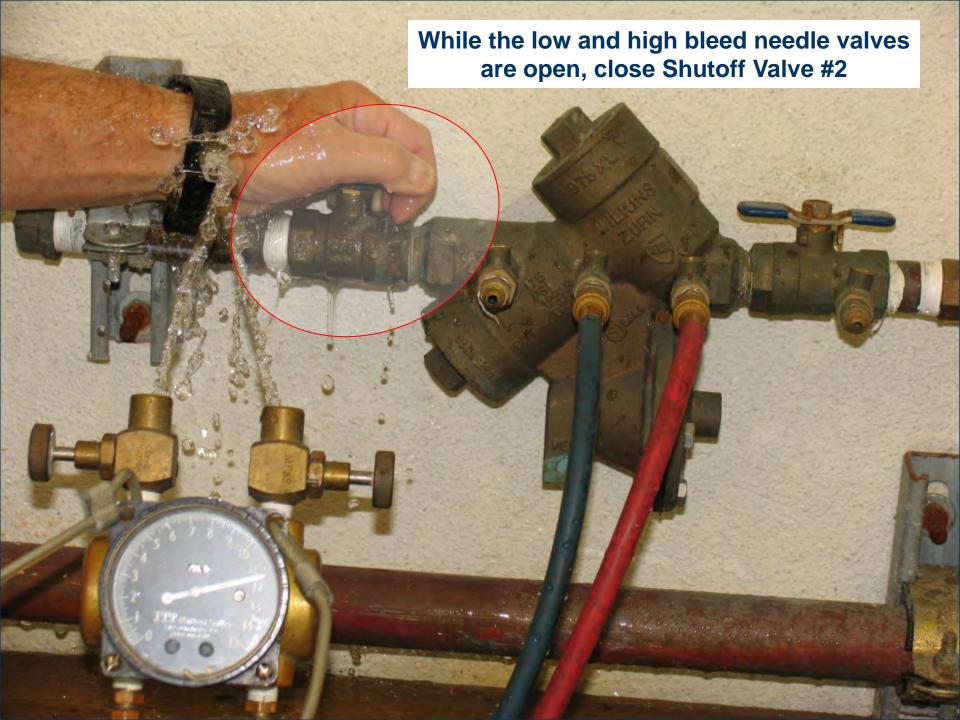


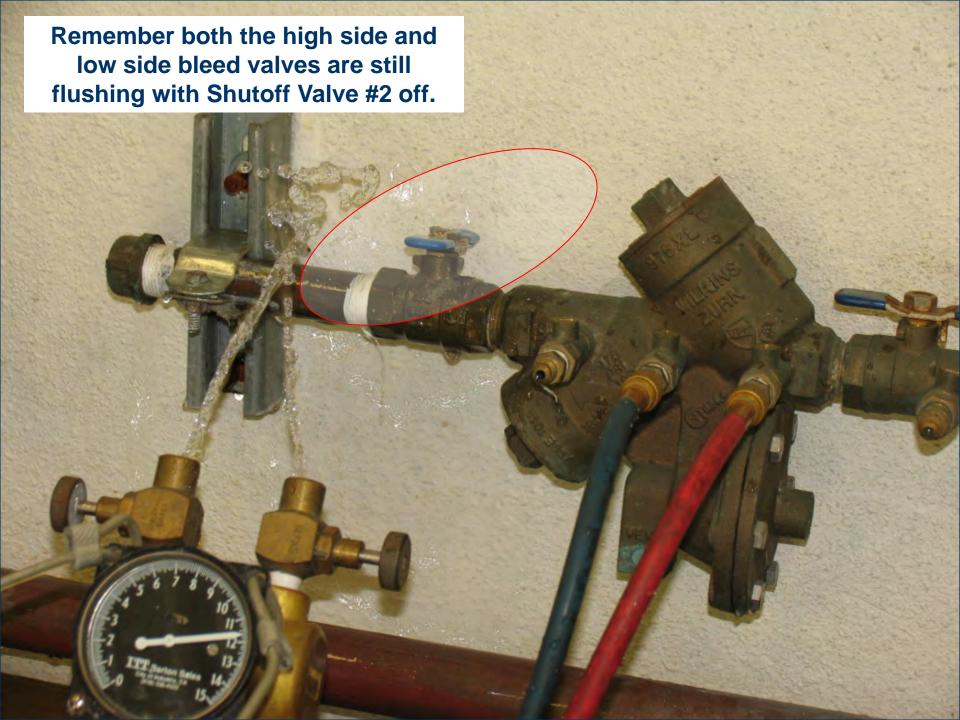


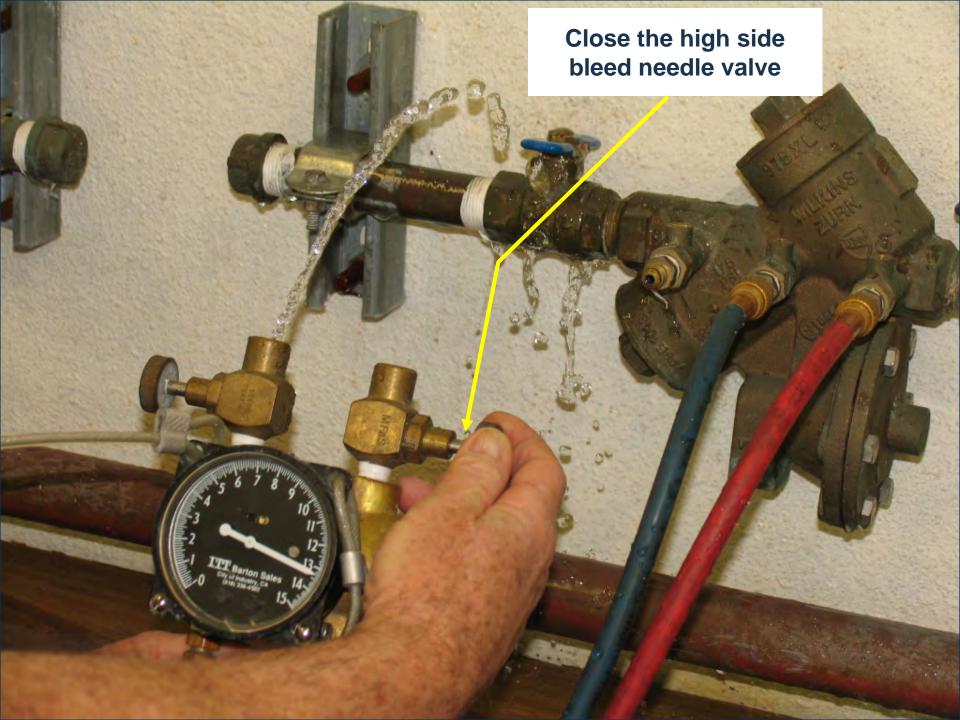


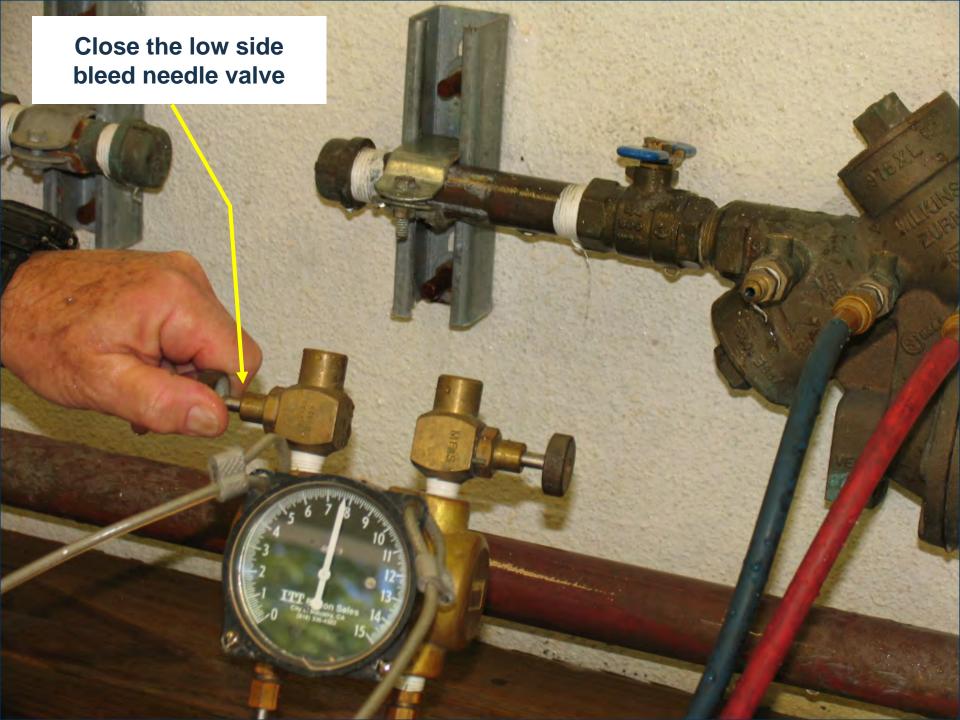


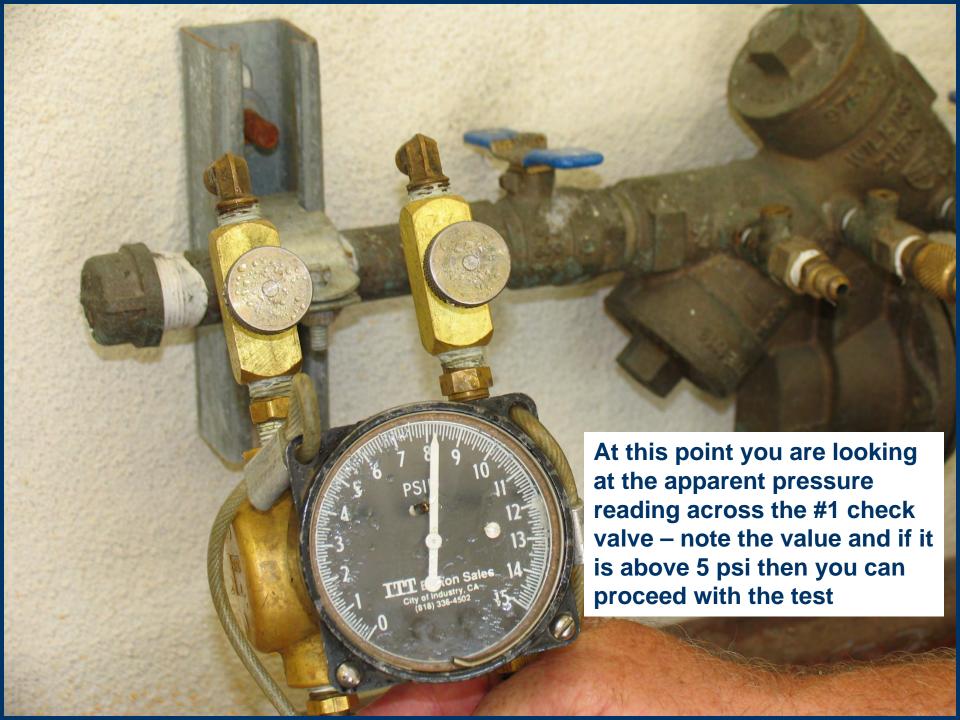


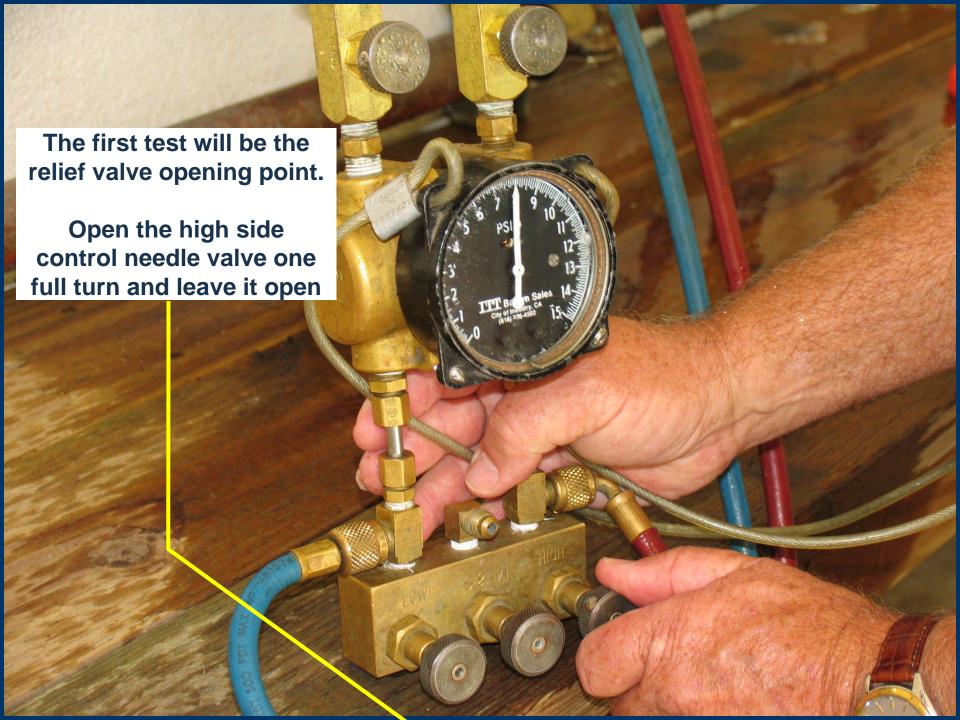


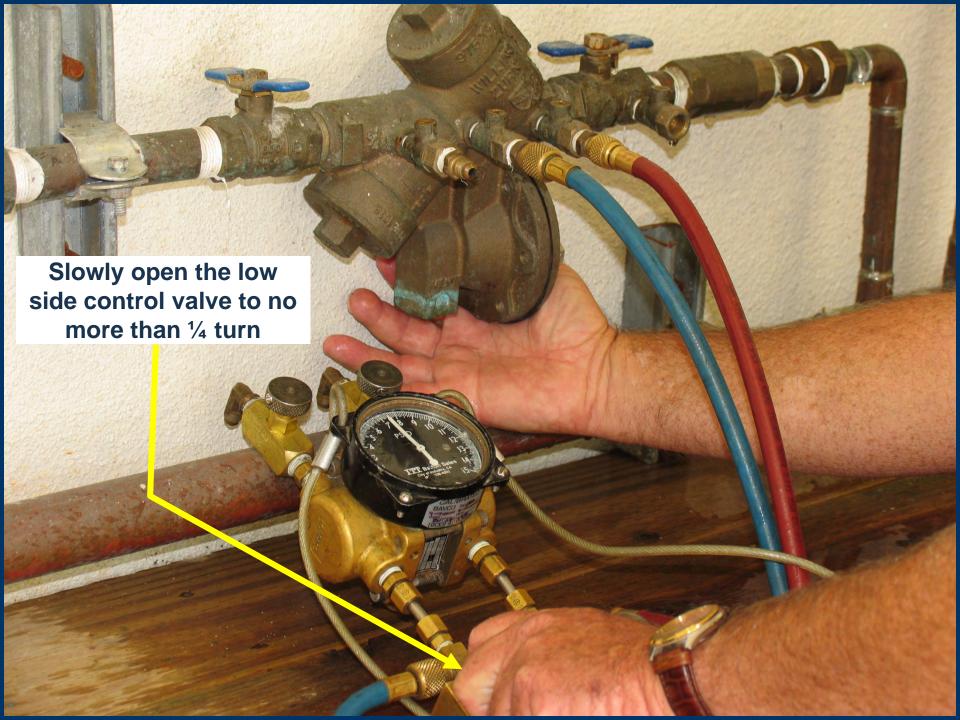




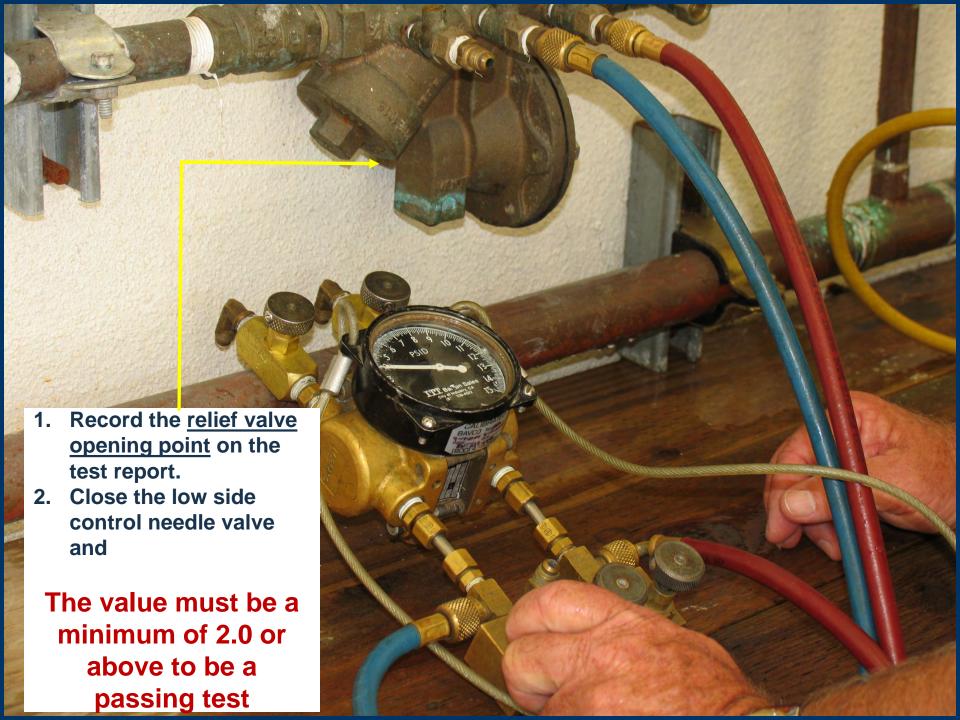




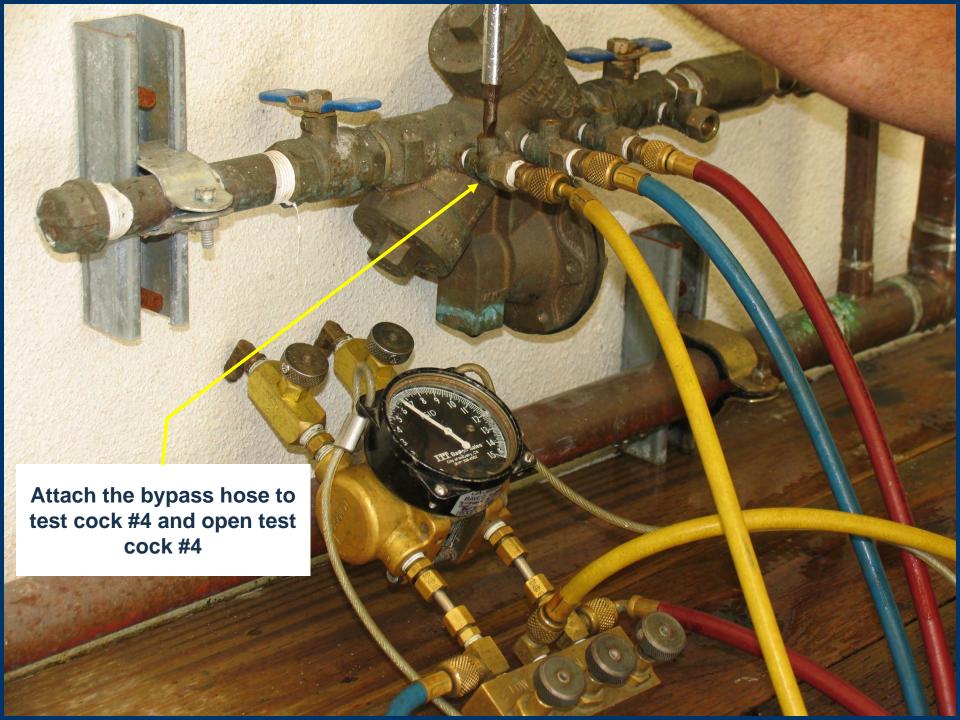


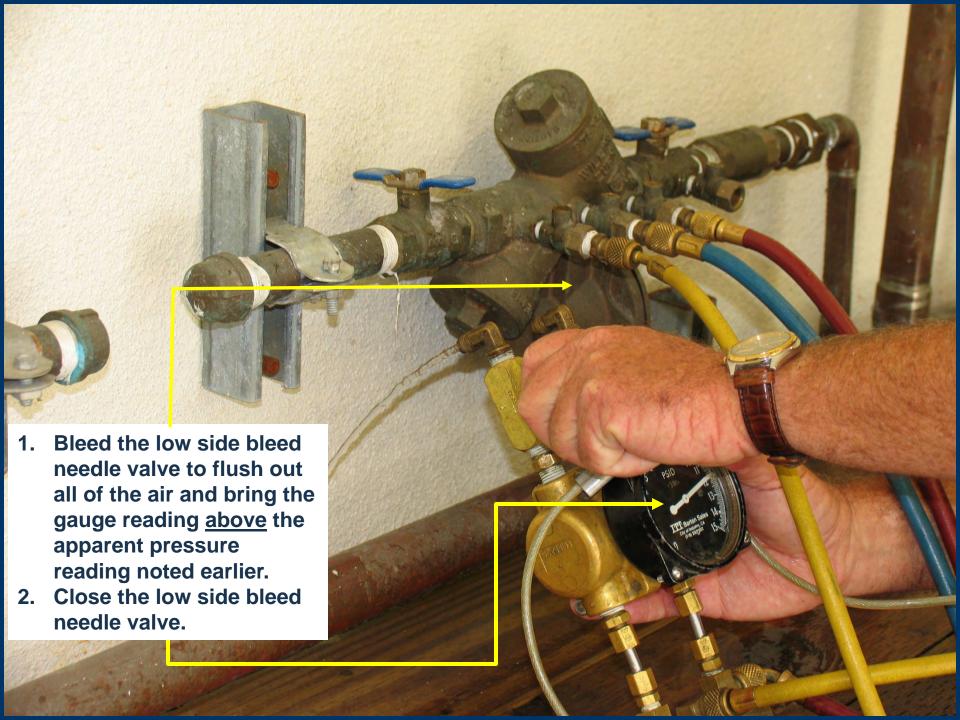


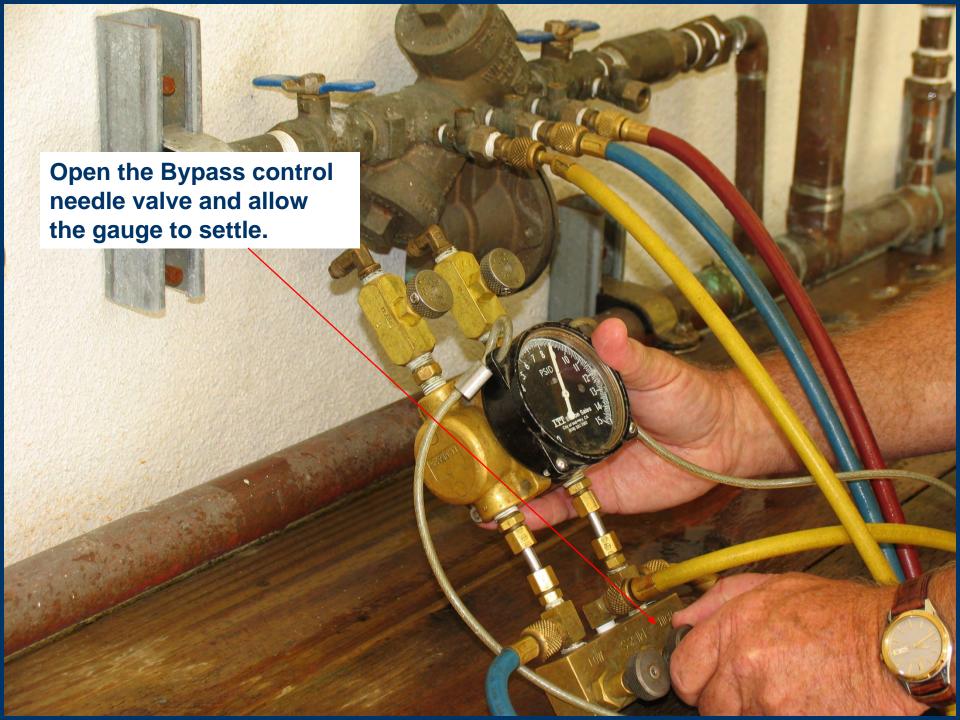


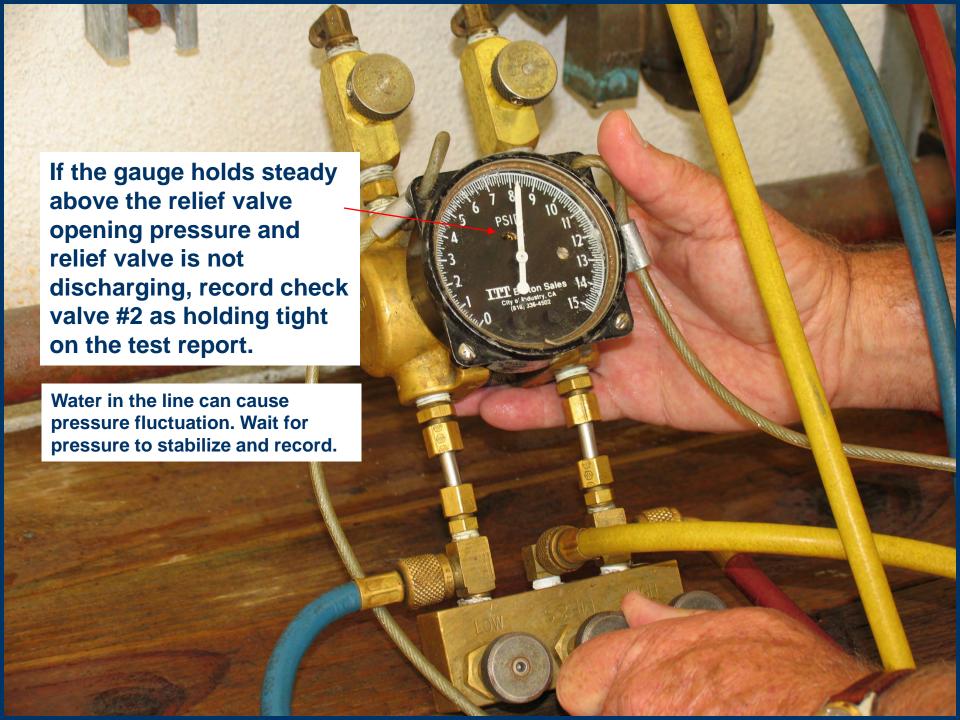


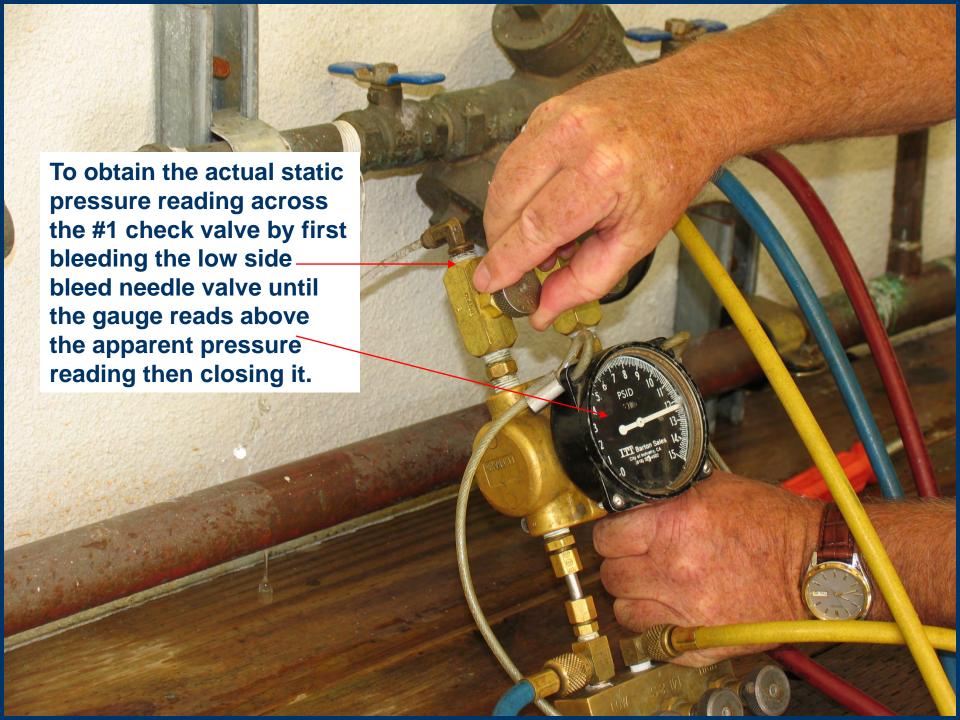


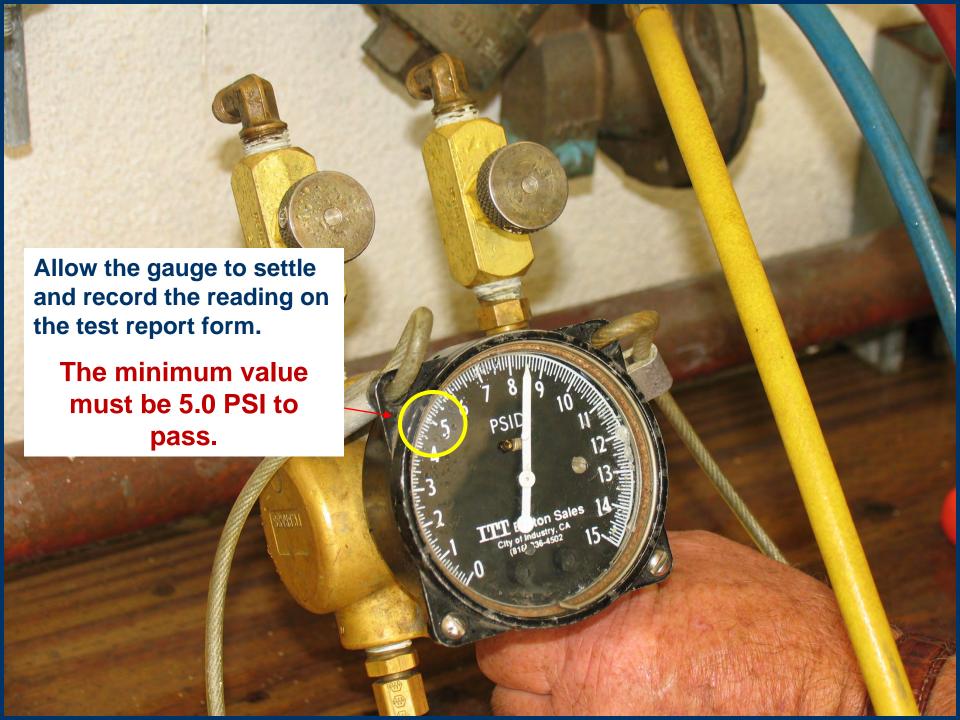






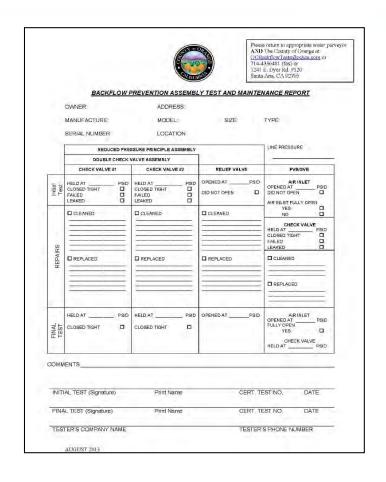






#### **Final Steps:**

- Shut off all test cocks, disconnect all hoses from the device
- 2. Restore water to the customer (or leave how the shut-off valves were initially found)
- 3. Fill out the test form correctly and completely
- 4. Submit the form to the water purveyor AND OCHCA

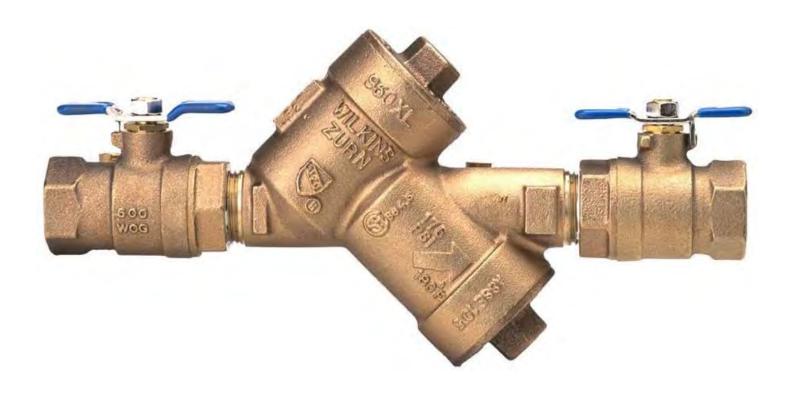




#### A Troubleshooting Note:

- Remember to be alert for disk compression and try for the 2<sup>nd</sup> chance before you indicate that the #1 check is leaking!
- Refer to pages 493-499 of the USC Manual for the troubleshooting refresher.







#### Equipment required:

- An approved and calibrated Differential Pressure Gauge
- 1 high pressure hose (1/4"D x 6 ft. long)
- Adapter fittings for each size test cock
- Sight tube (if needed)
- Bleed-off valve

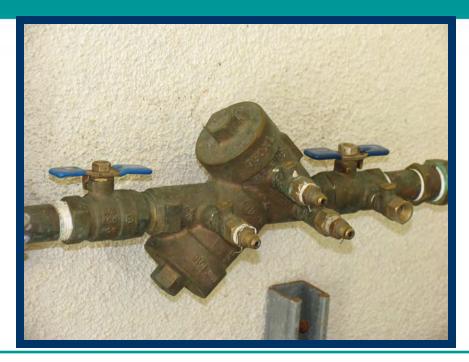


## **Preliminary Steps**

- Notify- Inform your contact at the location that you are there to preform the test on the backflow device and if the water service will be interrupted
- Identify- Locate and verify the make, model number, size, and serial number of the device to be tested
- Inspect- Ensure that the device has all the required components and that the test can be conducted
- Observe- inspect the area around the assembly and if it is safe to proceed with the test.

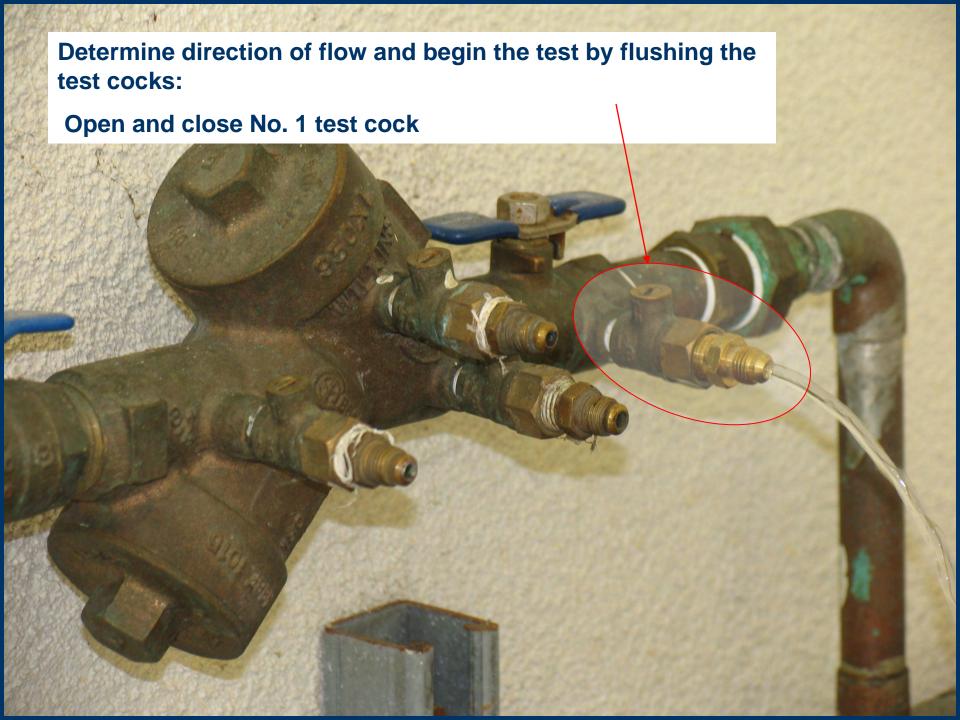


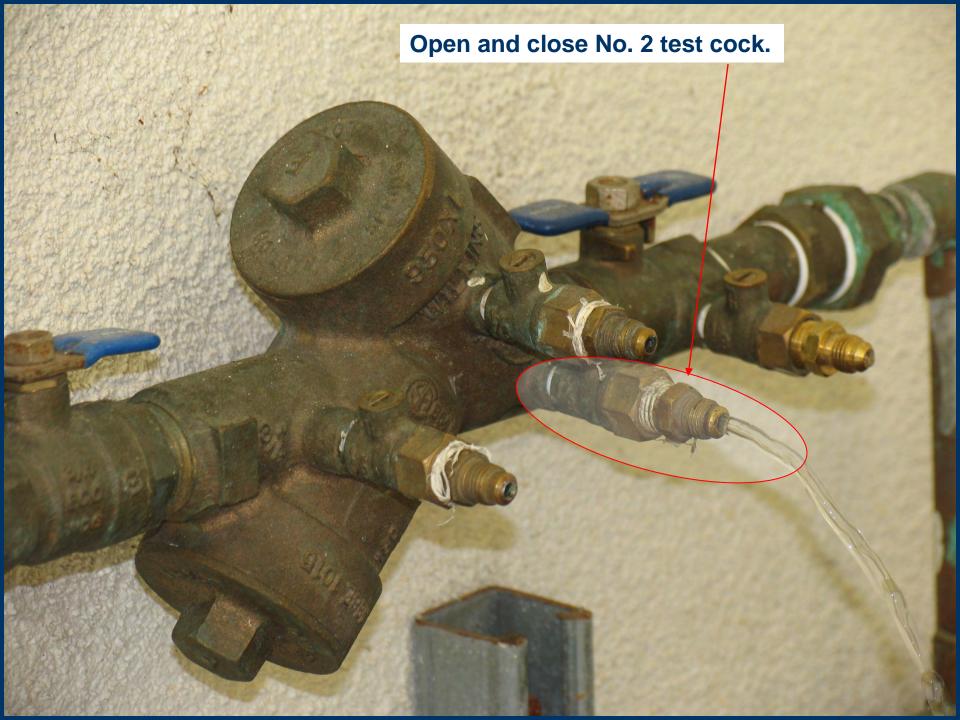
#### Double Check Backflow Prevention Assembly

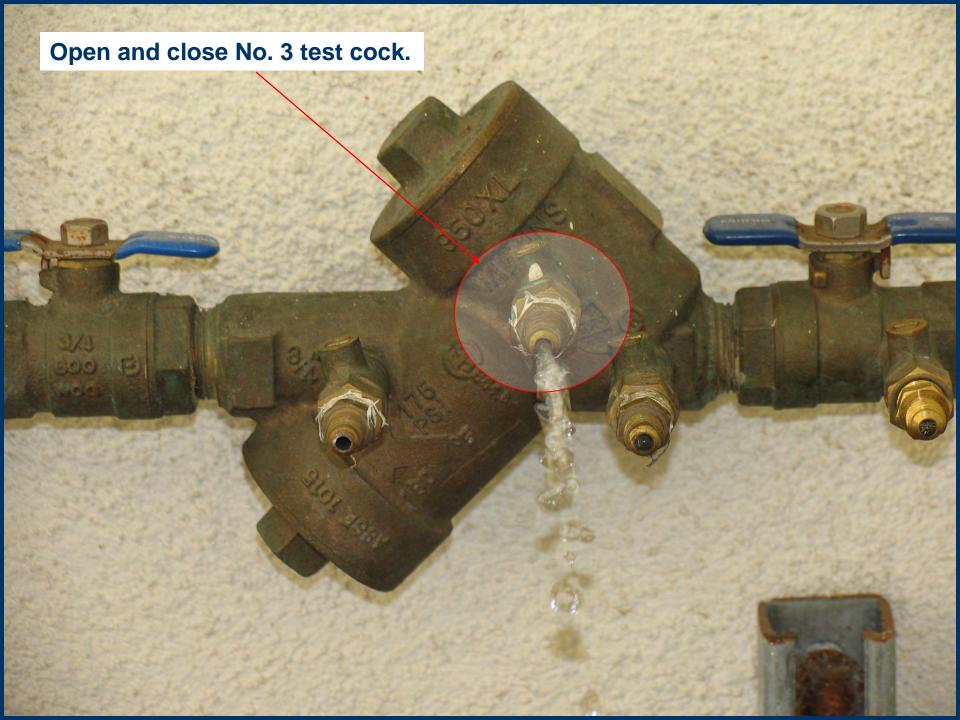


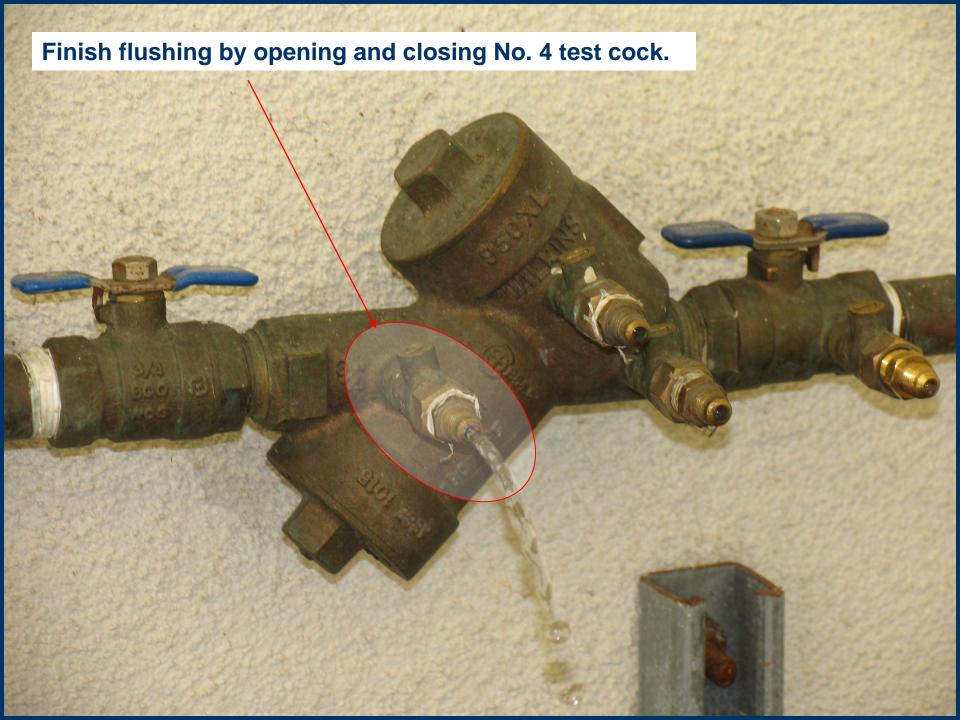
Upon arrival, what do you observe?

- Direction of flow
- Leaky test cocks
- Shutoff valves close/open
- Any hoses connected to the device
- When testing a Double Check Detector Assembly type I, you test the bypass first then the main body (page 320).
- Etc.

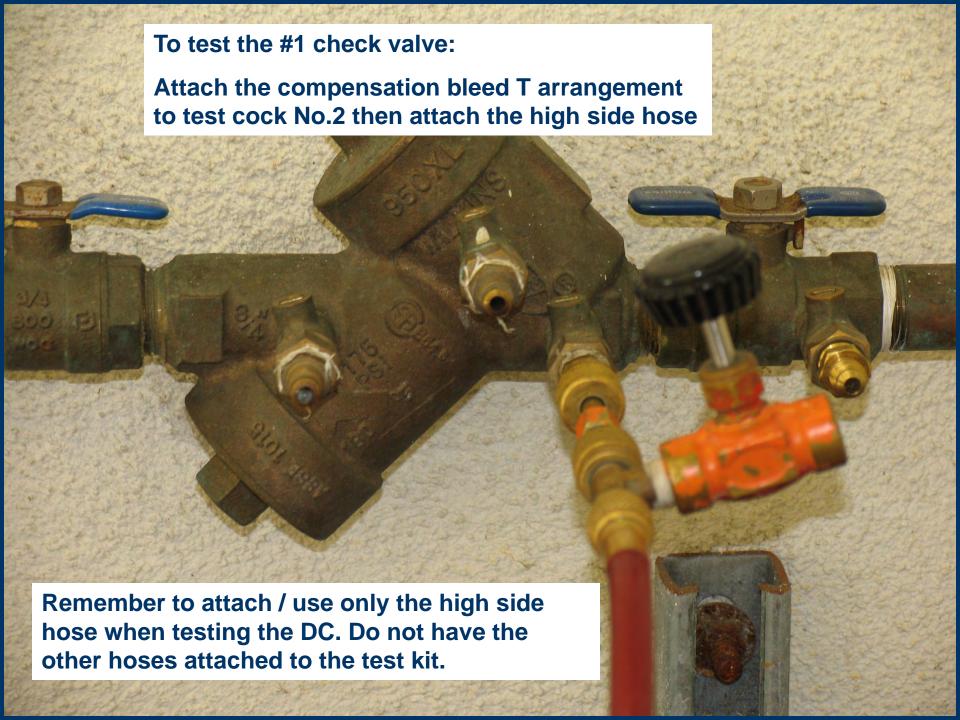


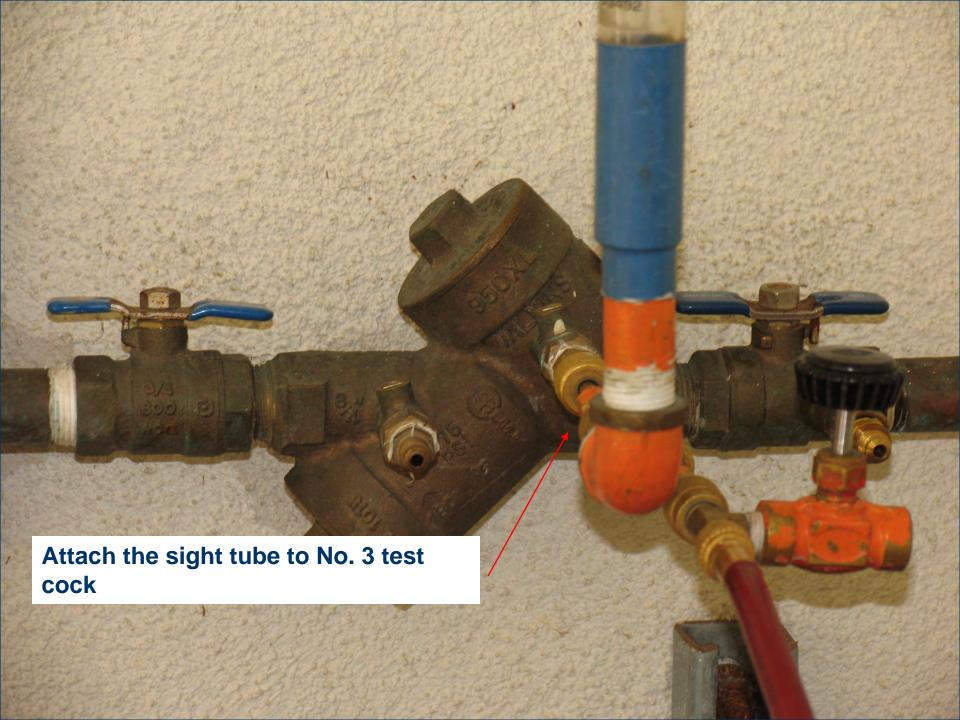




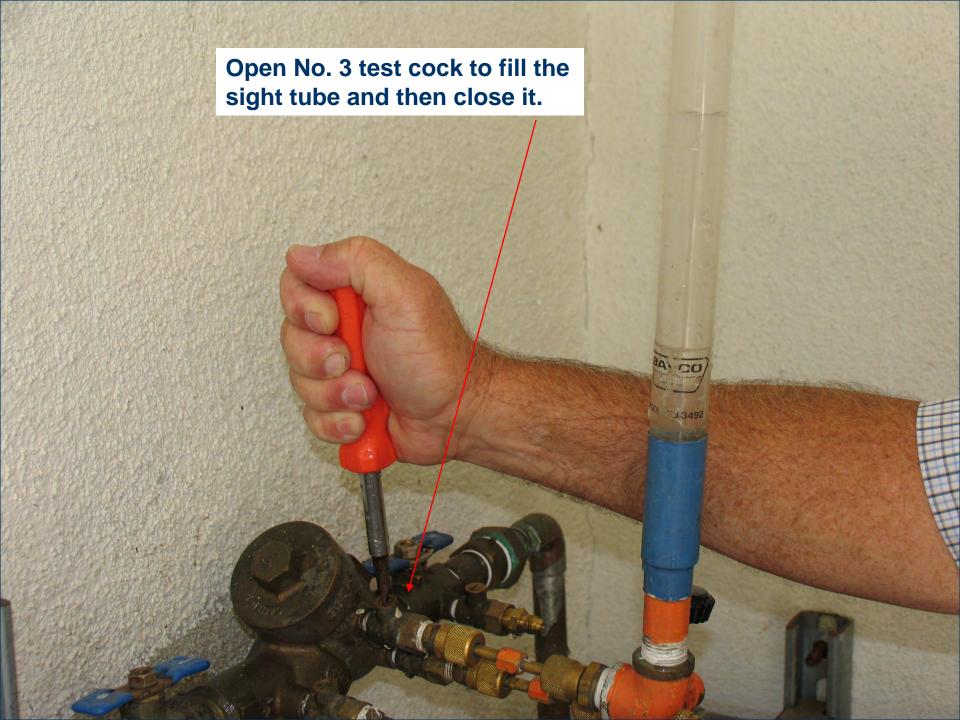


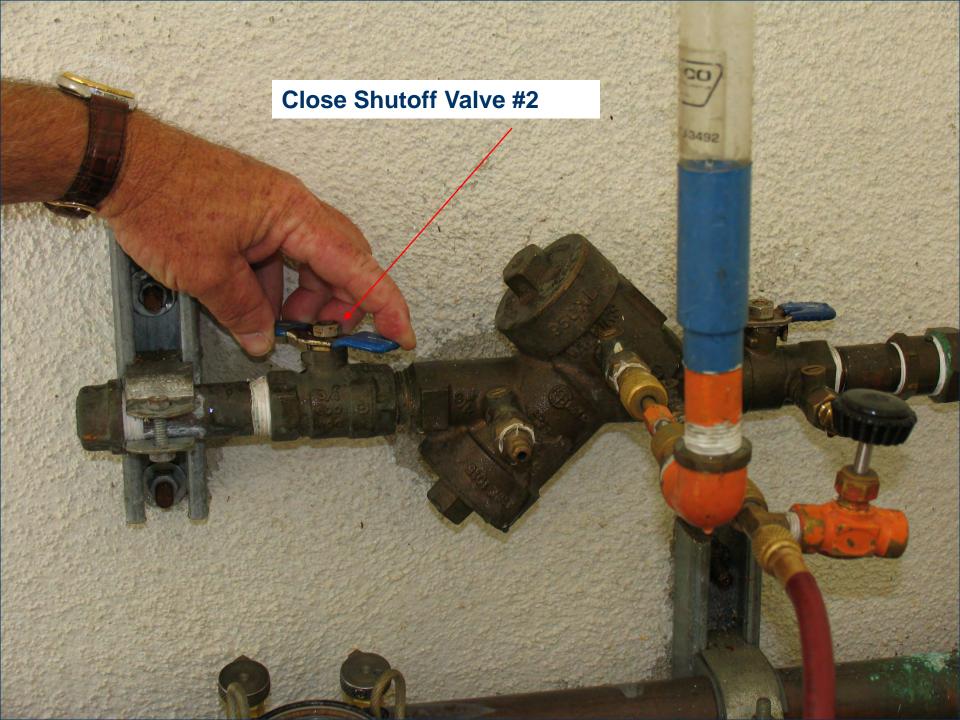


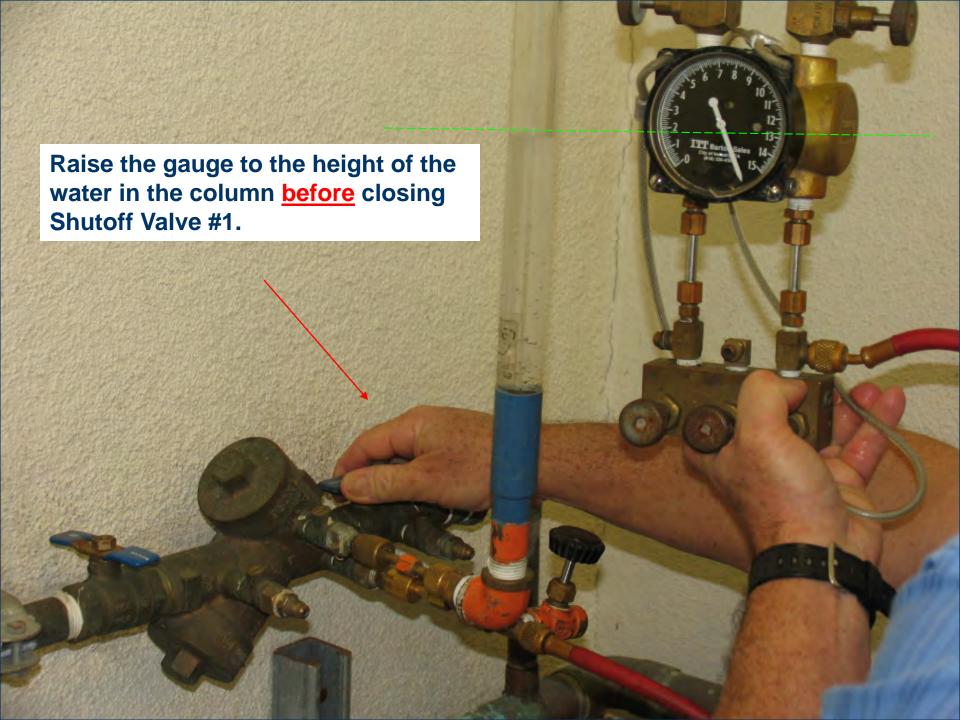














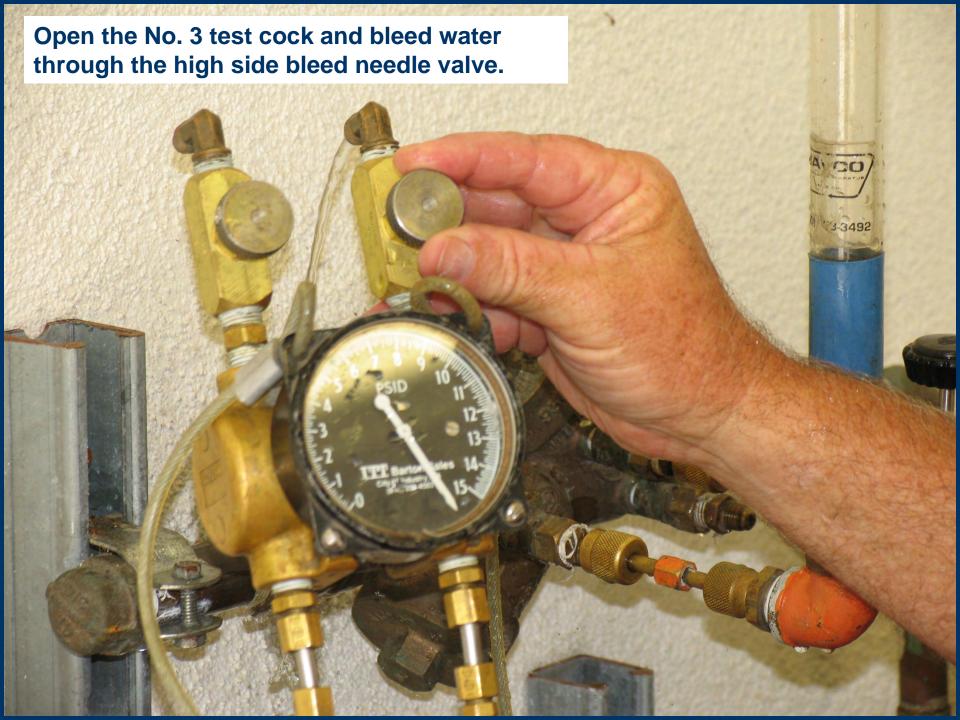
Making sure your gauge is at the highest point of water, open No. 3 test cock, record the gauge reading after it settles.

The check valve must hold at 1.0 PSI or greater to pass.

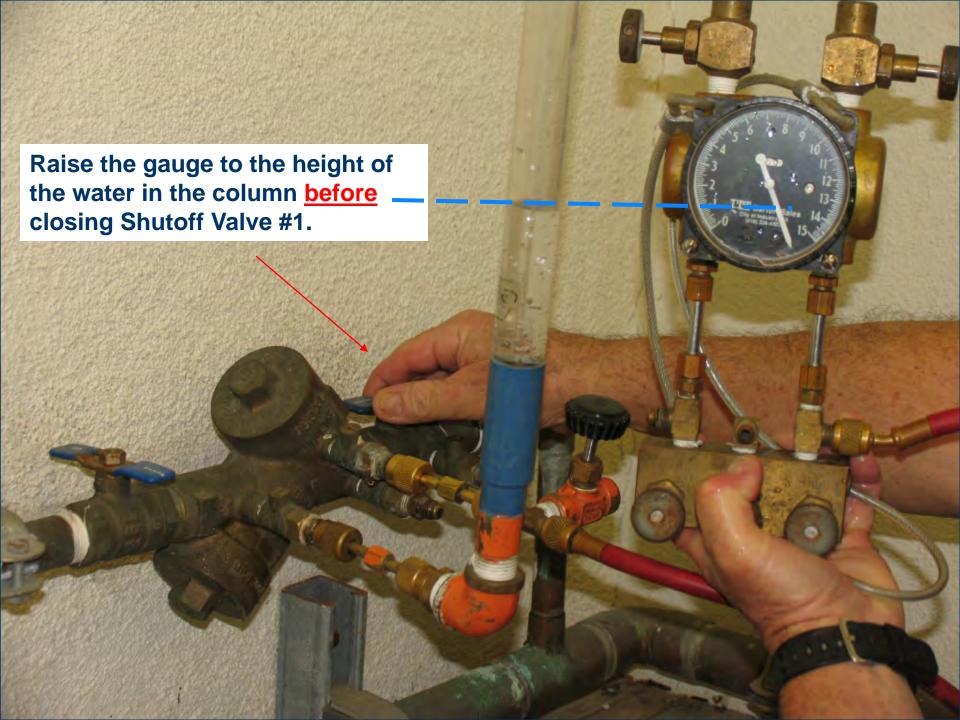


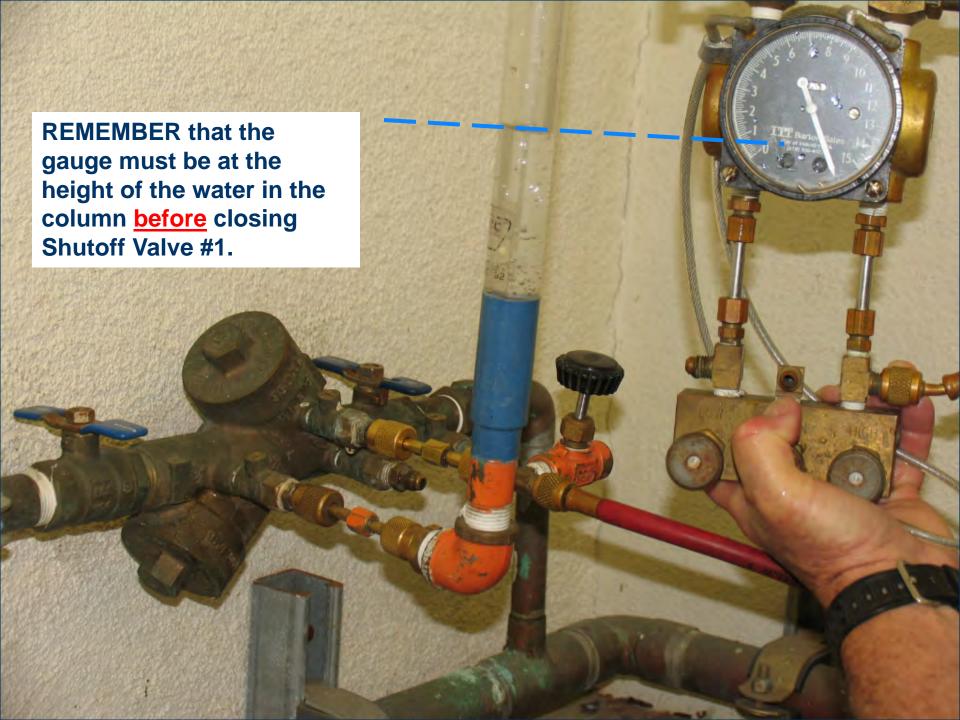




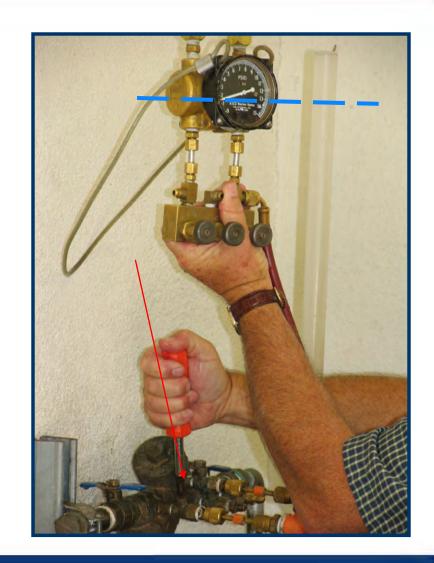






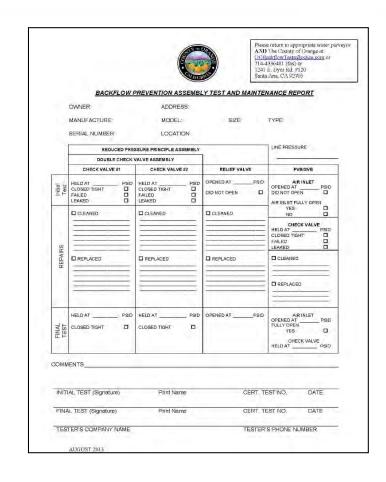


Making sure your gauge is at the highest point of water, open No. 4 test cock and record the gauge reading after it stabilizes. The check valve must hold at 1.0 PSI or greater to pass.

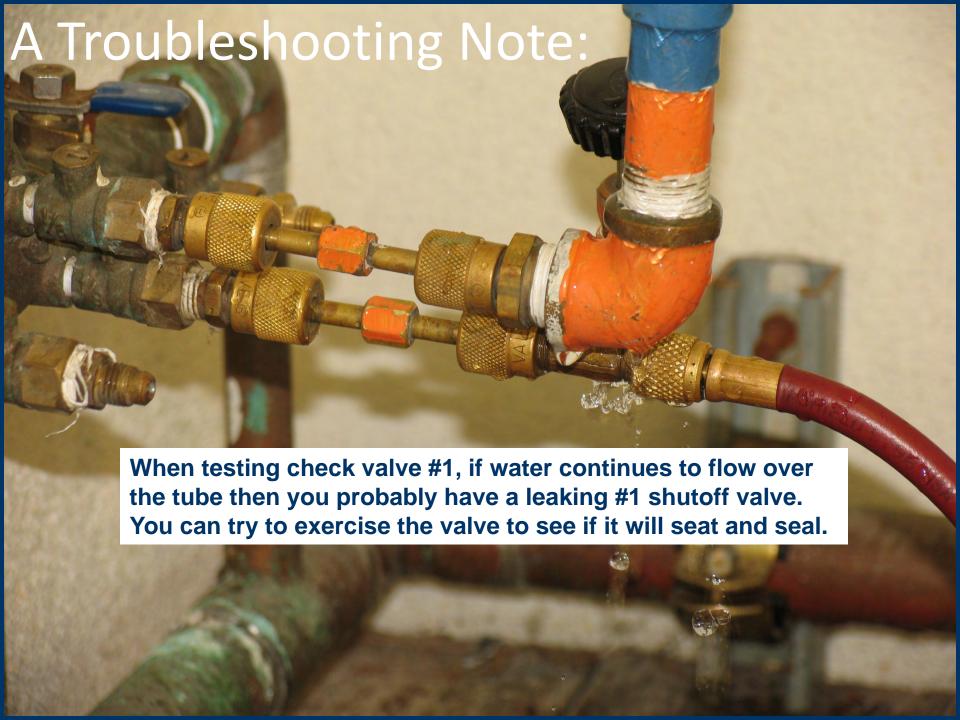


#### **Final Steps:**

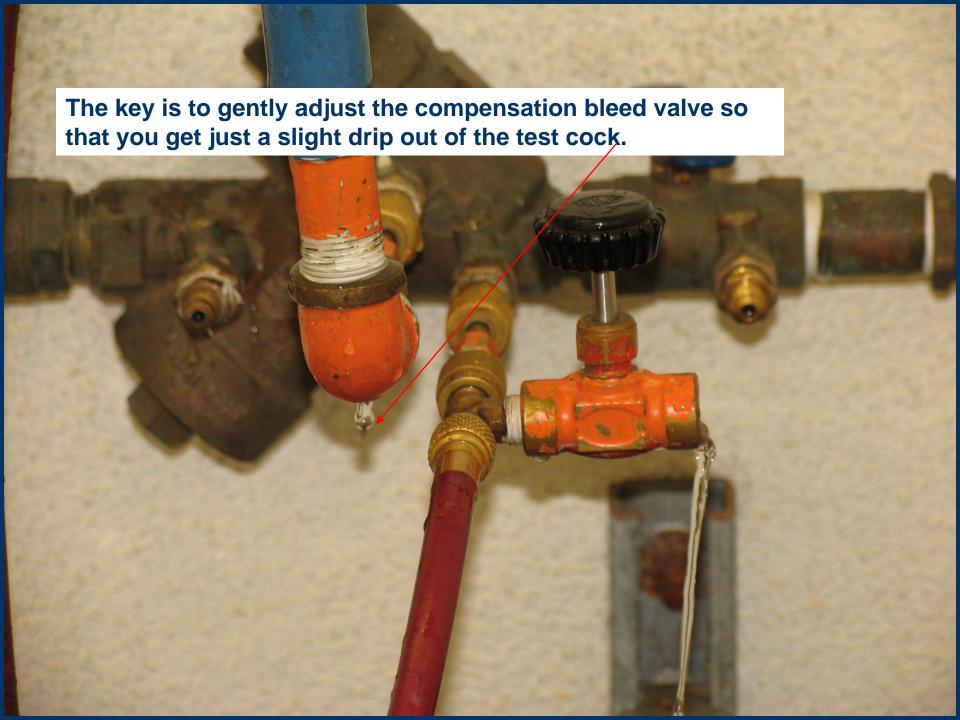
- 1. Turn off all test cocks and disconnect all hoses from the device
- 2. Restore water to the customer (or leave how the shut-off valves were initially found)
- 3. Fill out the test form correctly and completely
- Submit the form to the water purveyor AND OCHCA





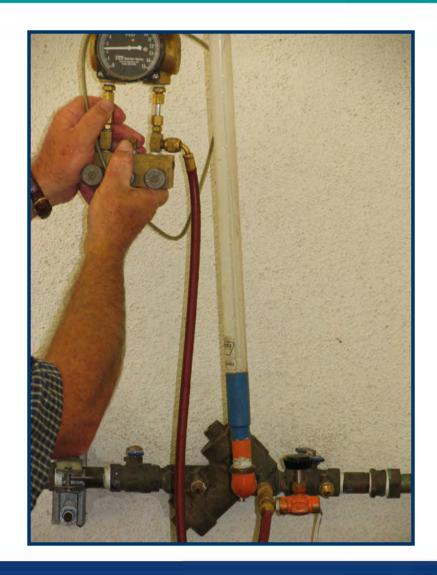






Once the leak has been properly compensated for, the check valve reading can be recorded as shown on the gauge.

Refer to pages 498 of the USC Manual for the troubleshooting refresher.







#### Equipment required:

- An approved and calibrated Differential Pressure Gauge
- 1 high pressure hose (1/4"D x 6 ft. long)
- Adapter fittings for each size test cock
- Bleed-off valve



## **Preliminary Steps**

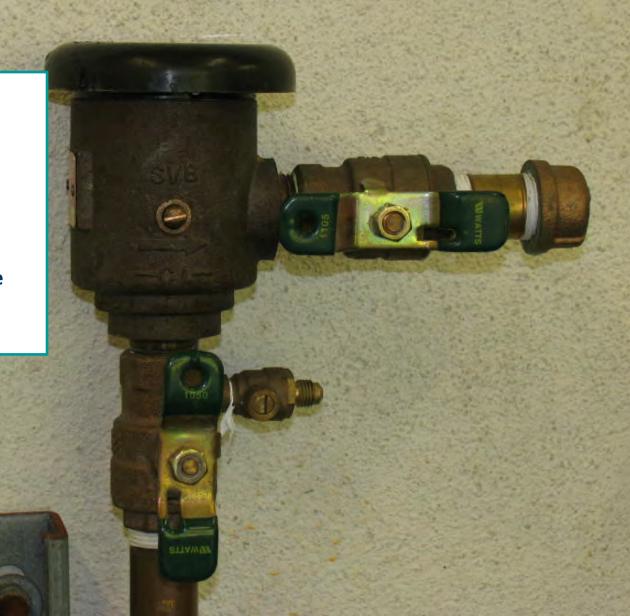
- Notify- Inform the client that you will be testing the assembly
- Identify- Verify that you are testing the correct assembly
- Inspect- check to make sure that nothing is missing or damaged
- Observe- Verify that the area around the assembly is safe to proceed.



#### Spill-resistant PVB with the canopy installed.

#### Upon arrival, what do you observe?

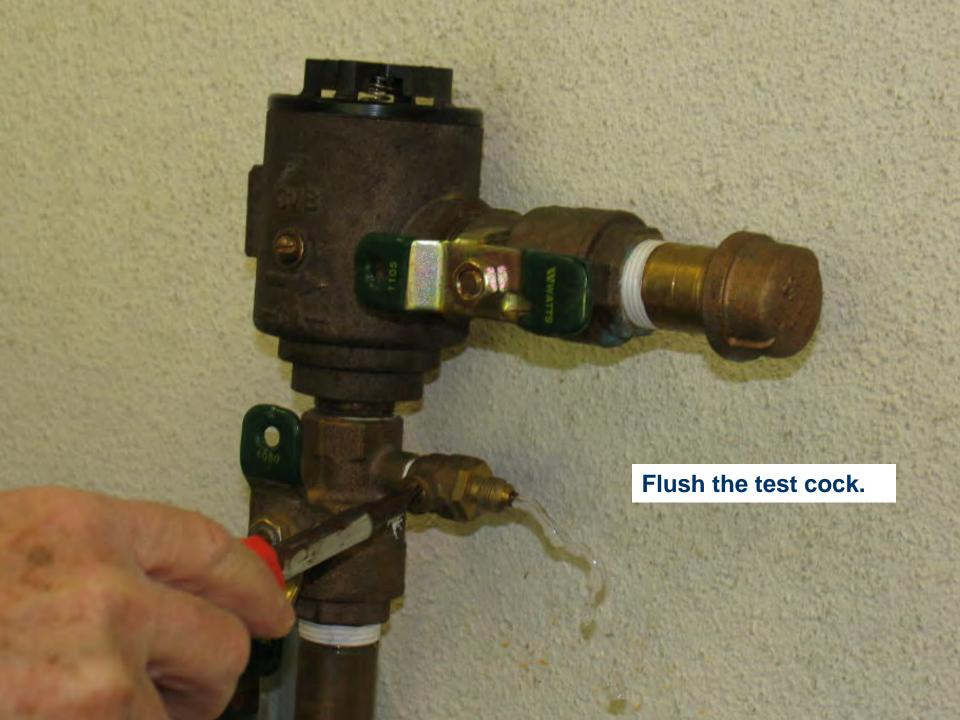
- Missing canopy
- Direction of flow
- Leaky test cocks
- Air Inlet overflowing
- Shutoff valves close/open
- Any hoses connected to the device
- Etc.



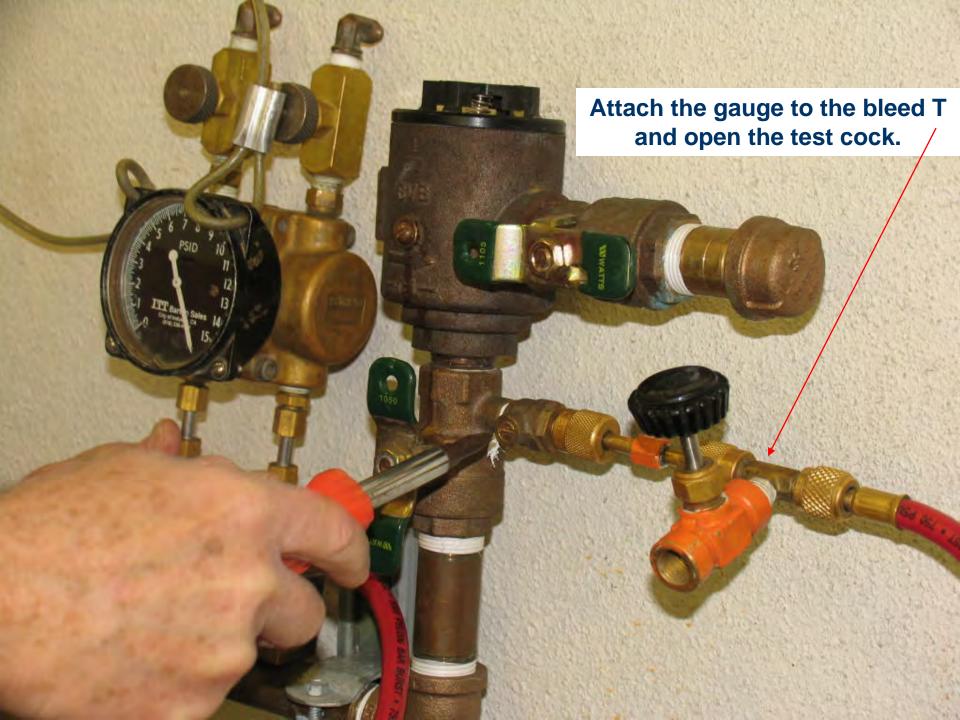
Remove the canopy from the top of the device.

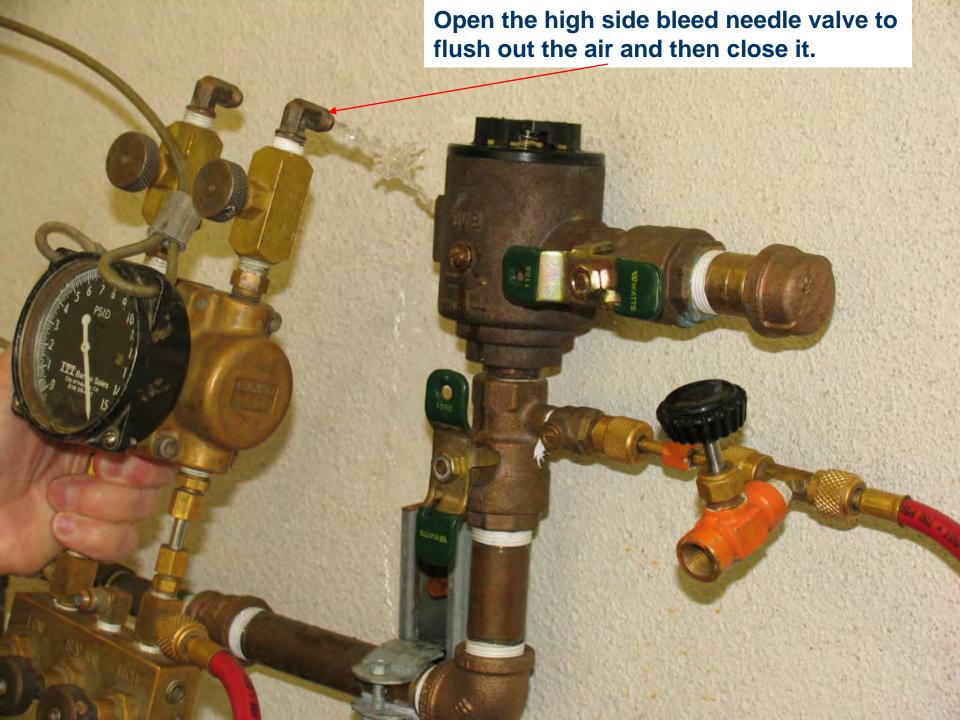
If the canopy is not present, write down your observation in the comment section of your test report.

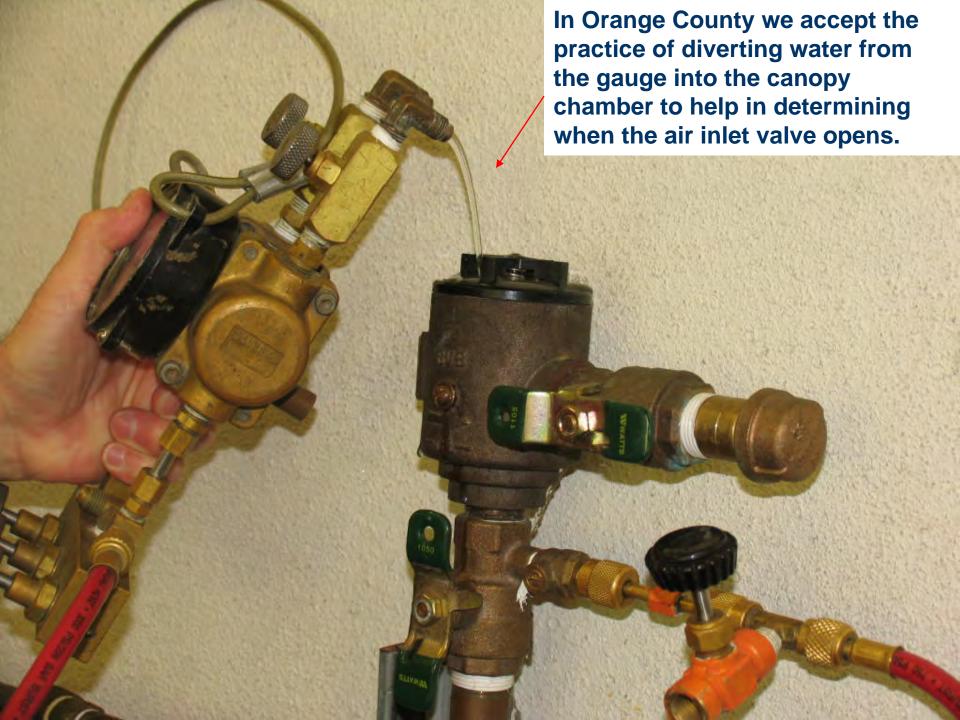


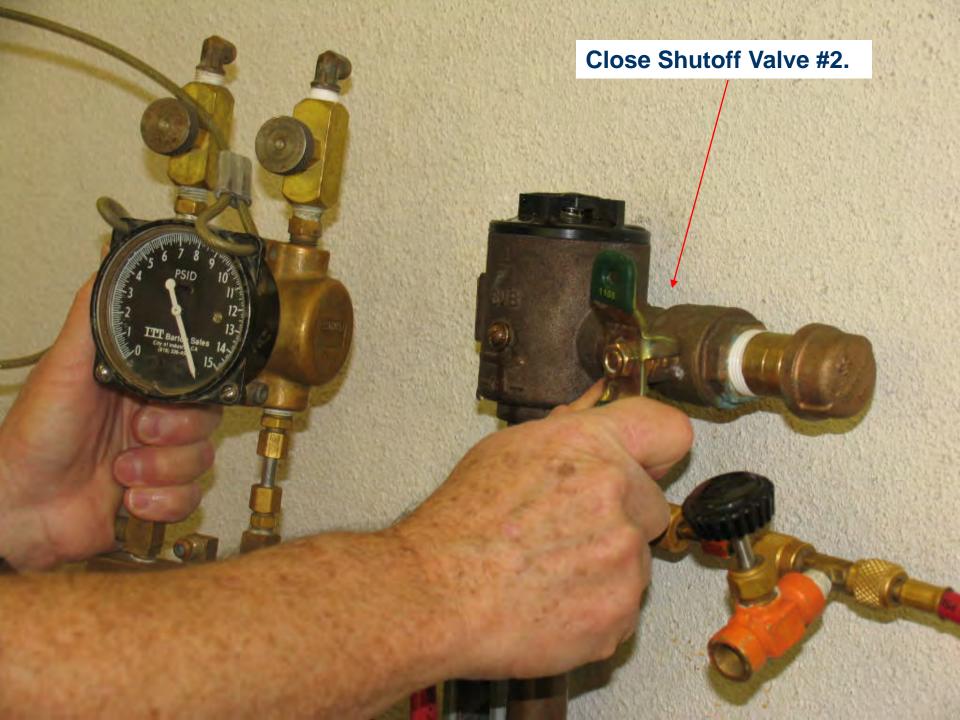


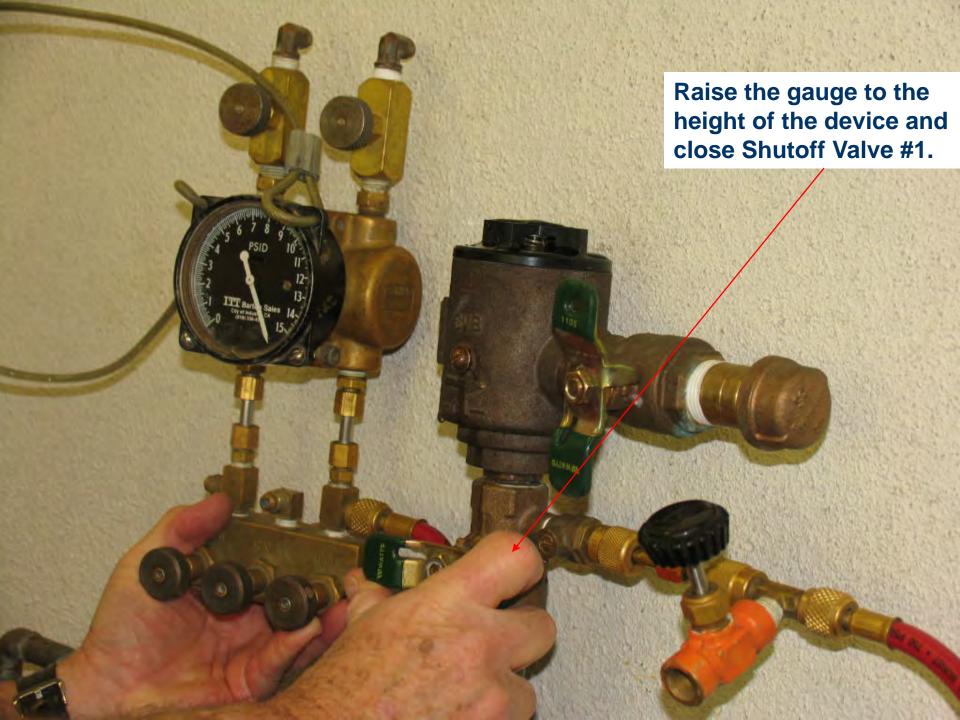










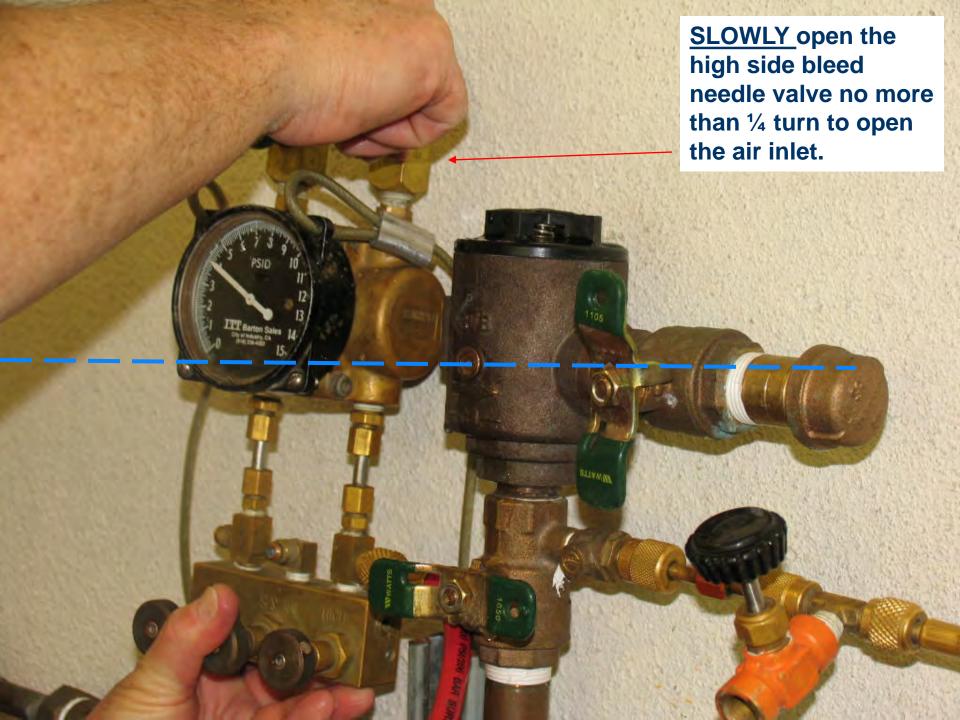


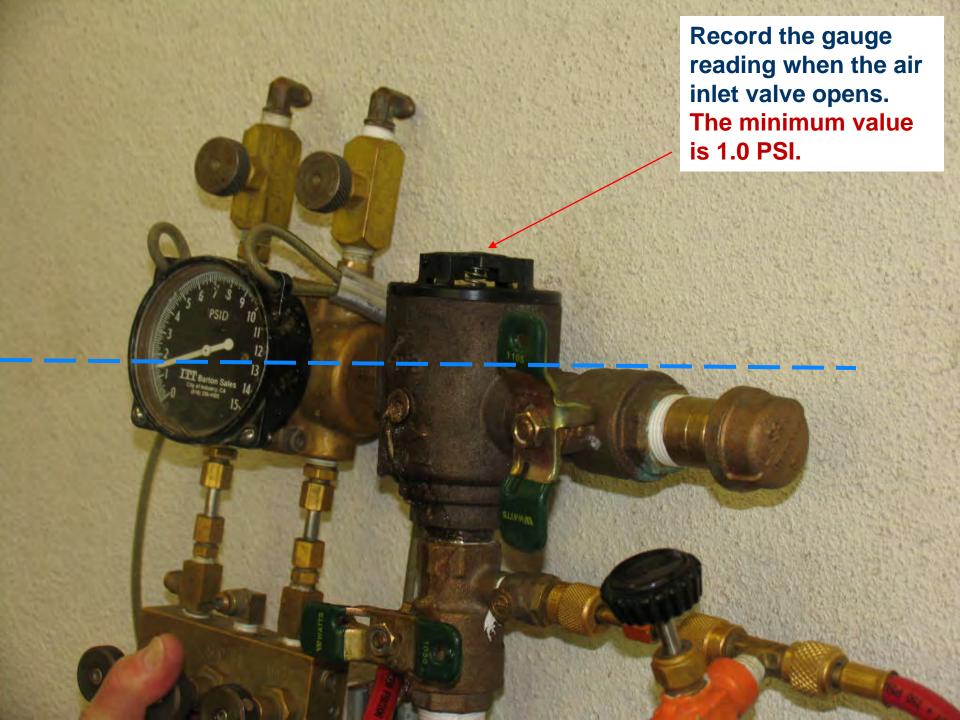














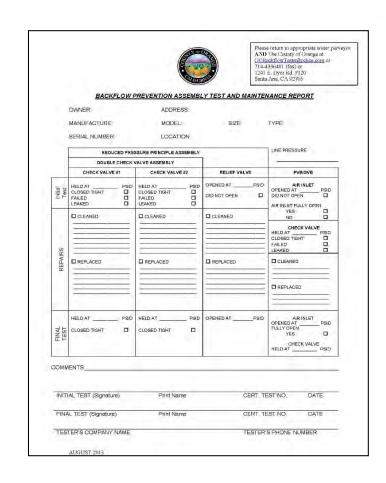




#### **Backflow Testing Review:** *SVB*

#### **Final Steps:**

- 1. Restore water to the customer (or leave how the shut-off valves were initially found)
- 2. Fill out the test form correctly and completely
- 3. Submit the form to the water purveyor AND OCHCA





# **Backflow Testing Review:** *PVB*





### **Backflow Testing Review: PVB**

#### Equipment required:

- An approved and calibrated Differential Pressure Gauge
- 1 high pressure hose (1/4"D x 6 ft. long)
- Adapter fittings for each size test cock
- Bleed-off valve



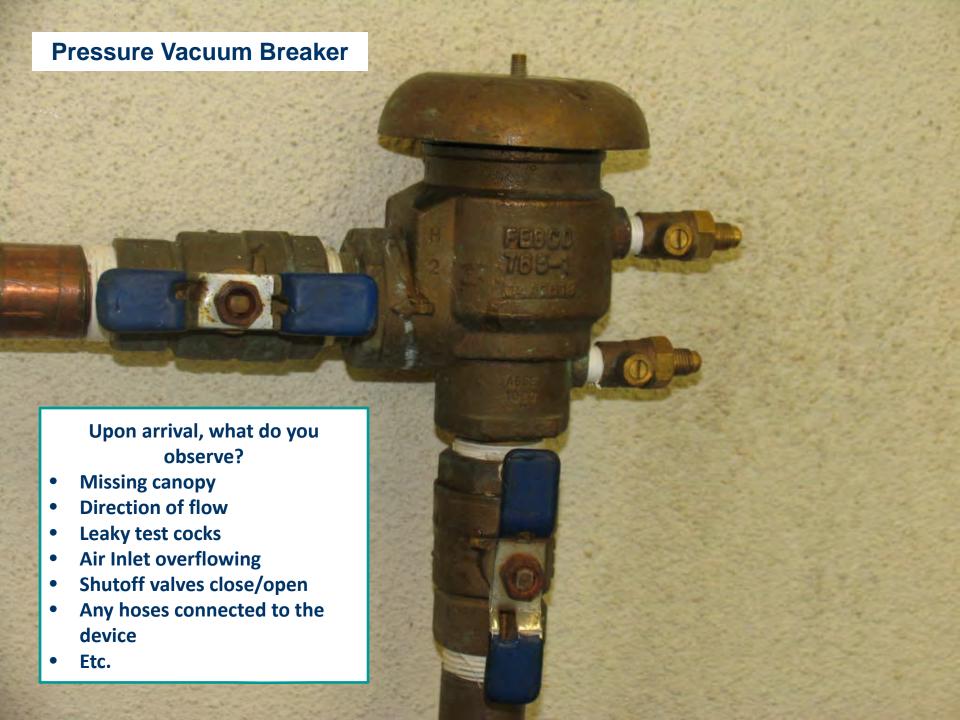
#### **Backflow Testing Review: PVB**

## **Preliminary Steps**

- Notify- Inform the client that you will be testing the assembly
- Identify- Verify that you are testing the correct assembly
- Inspect- check to make sure that nothing is missing or damaged
- Observe- Verify that the area around the assembly is safe to proceed.



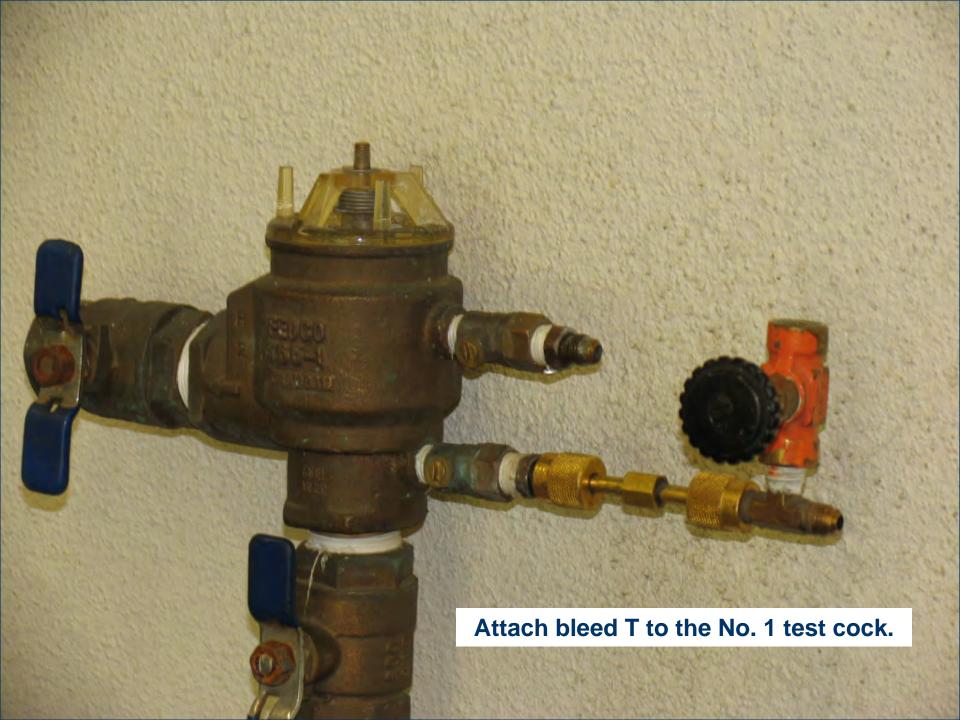


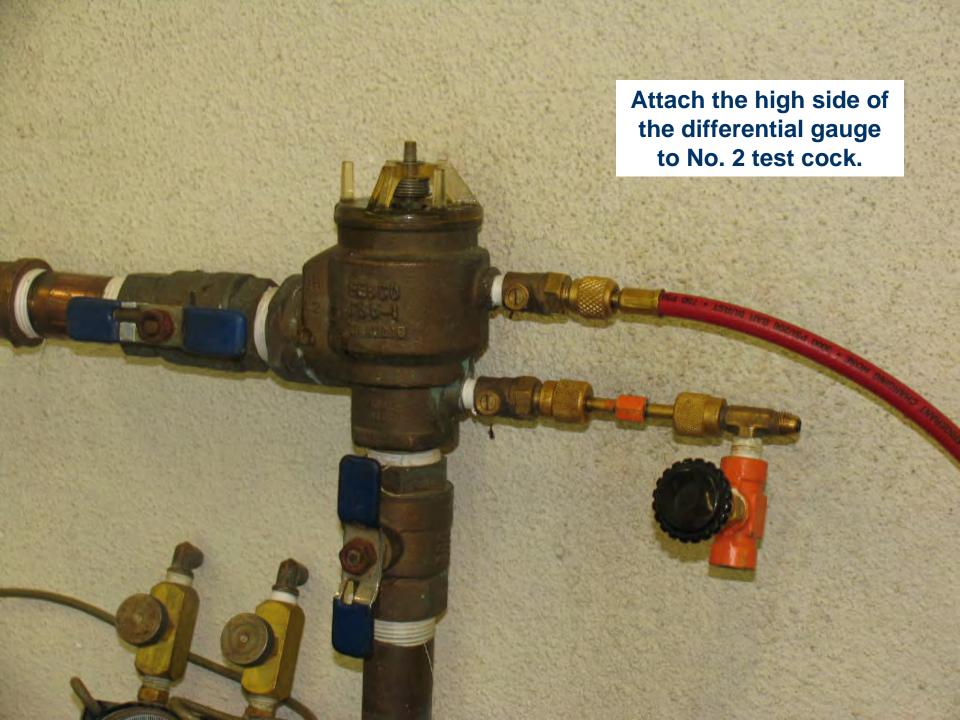




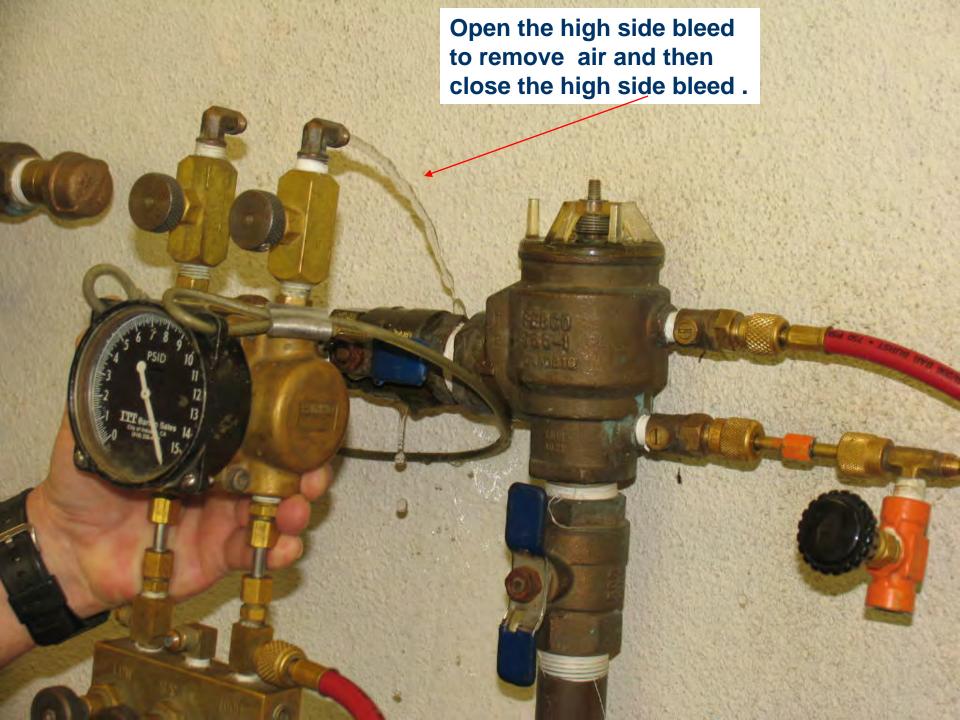


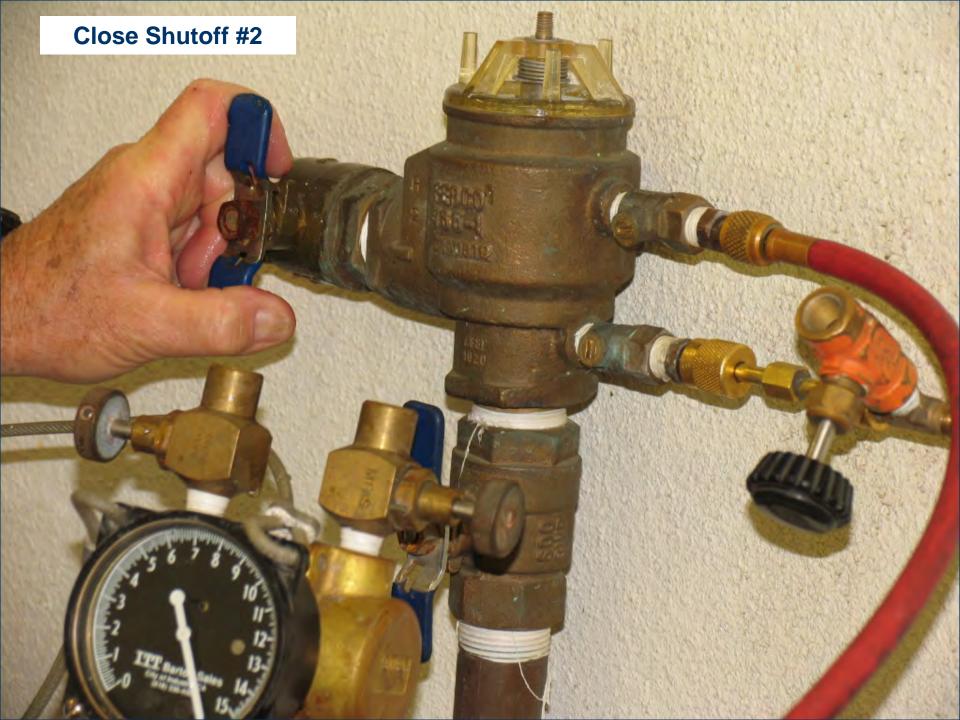


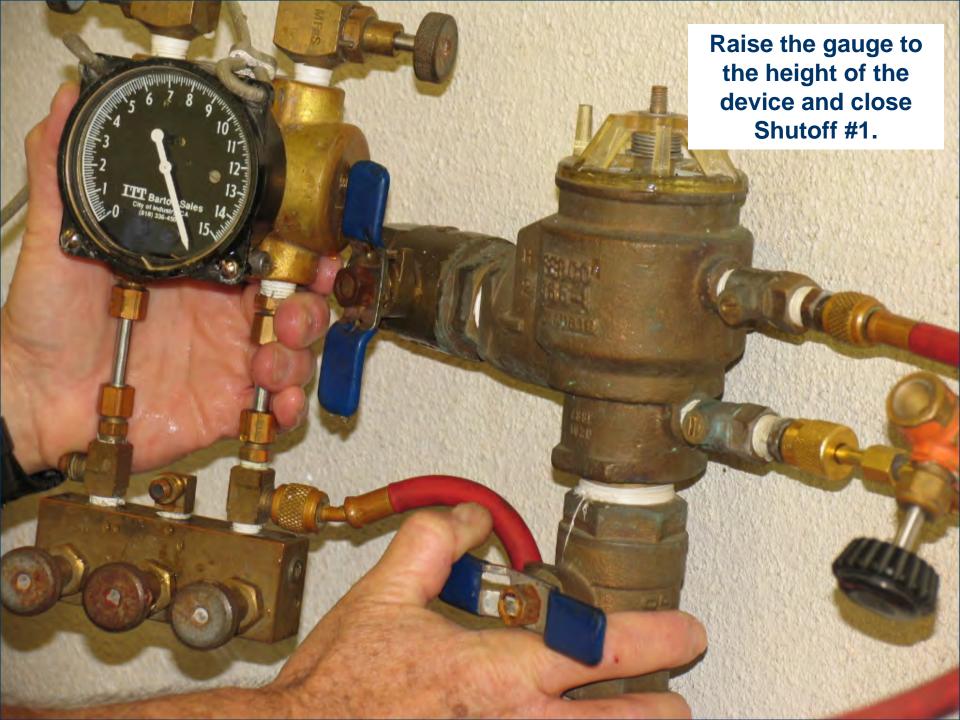




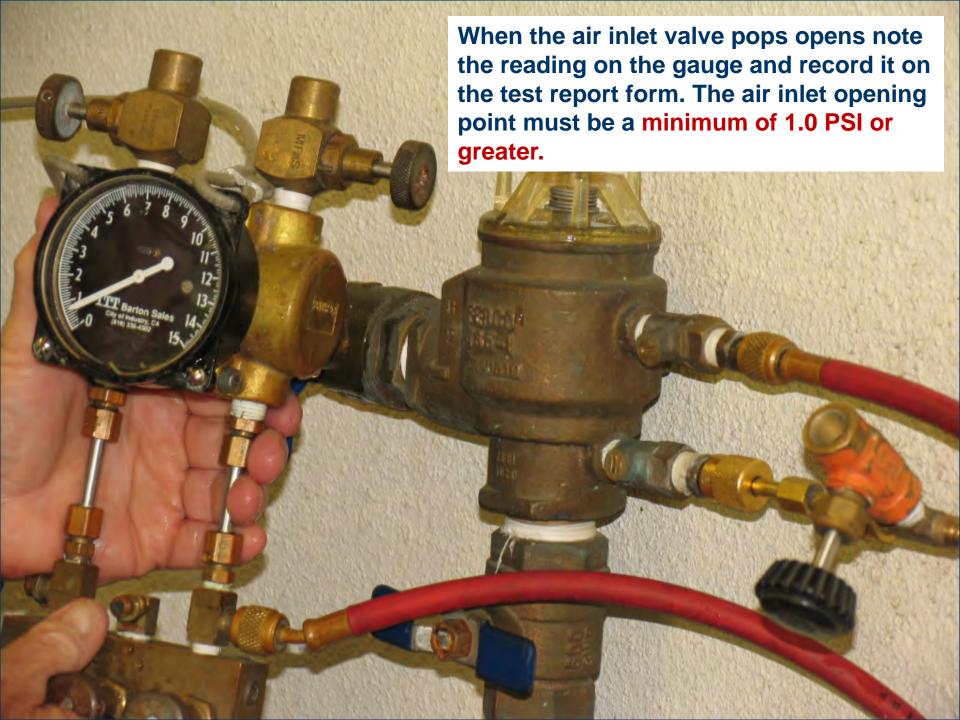












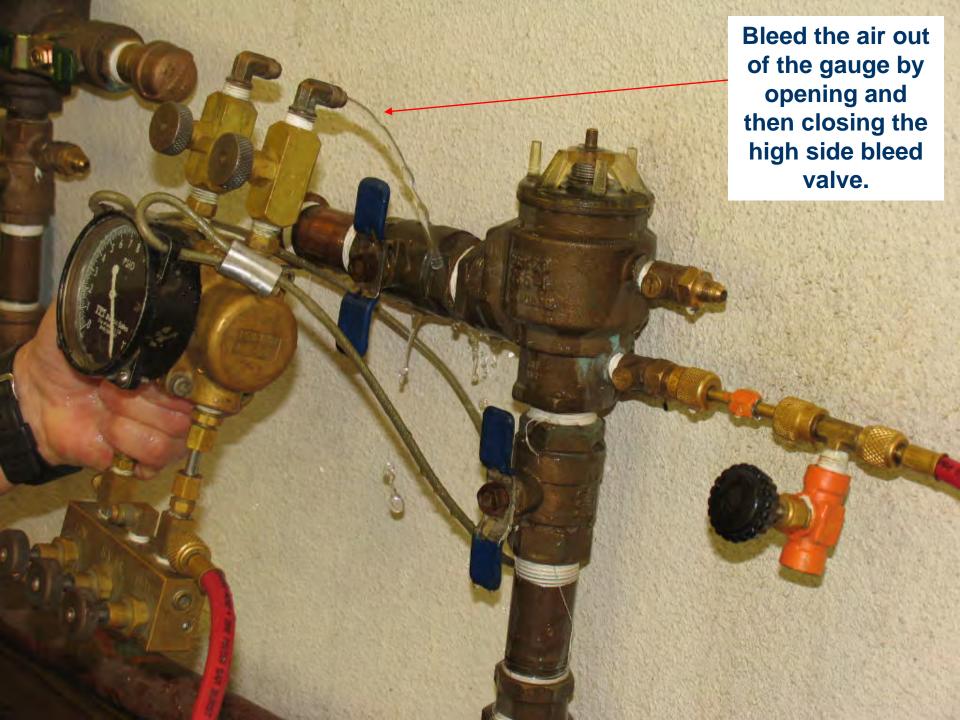


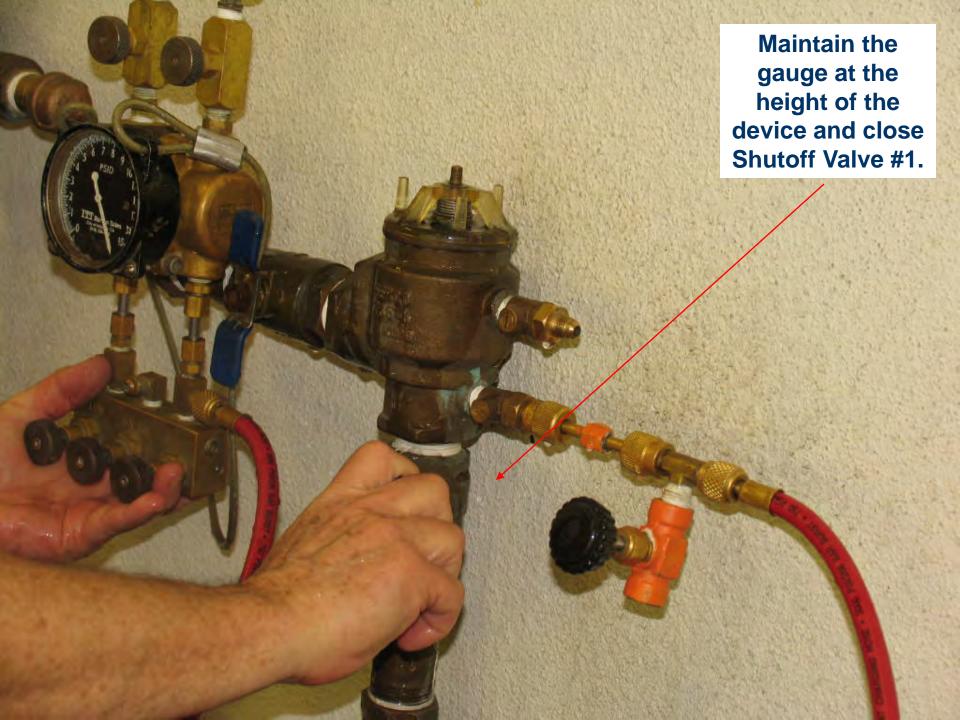






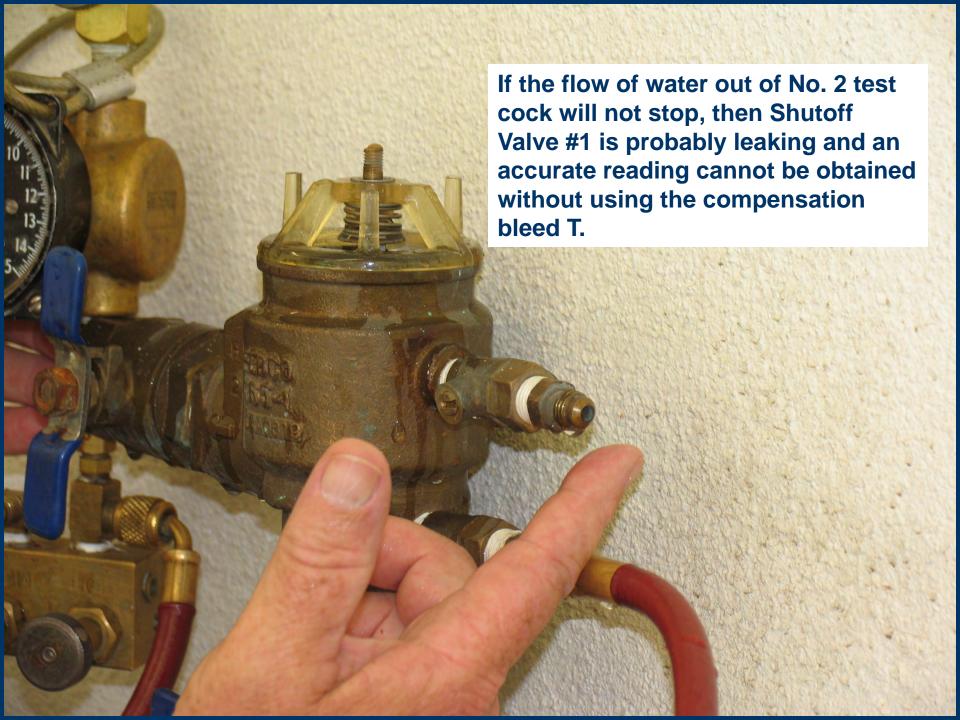


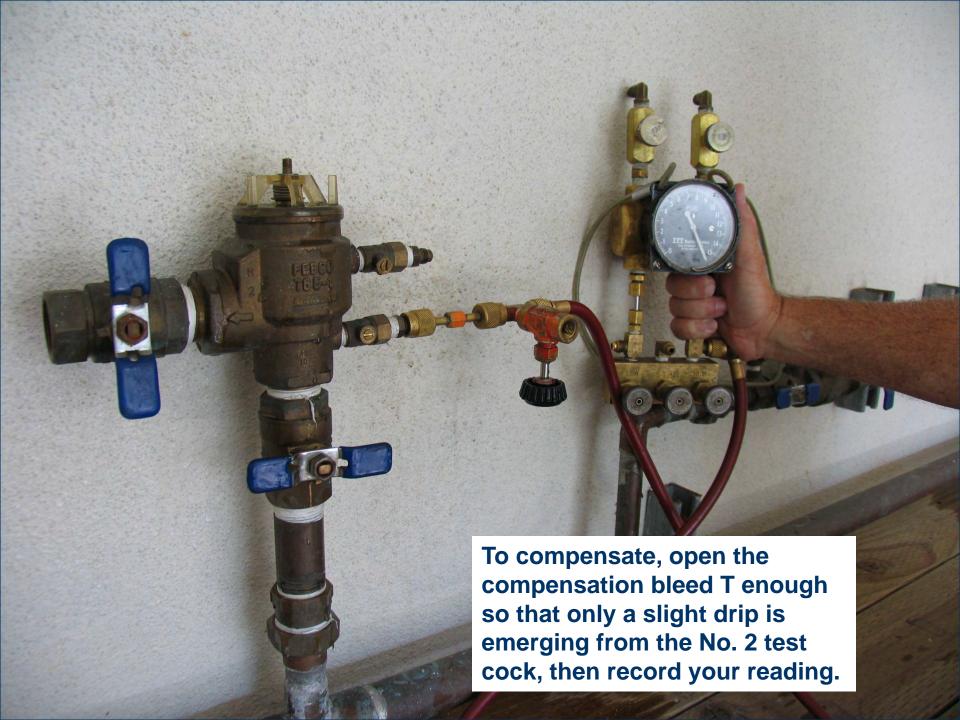




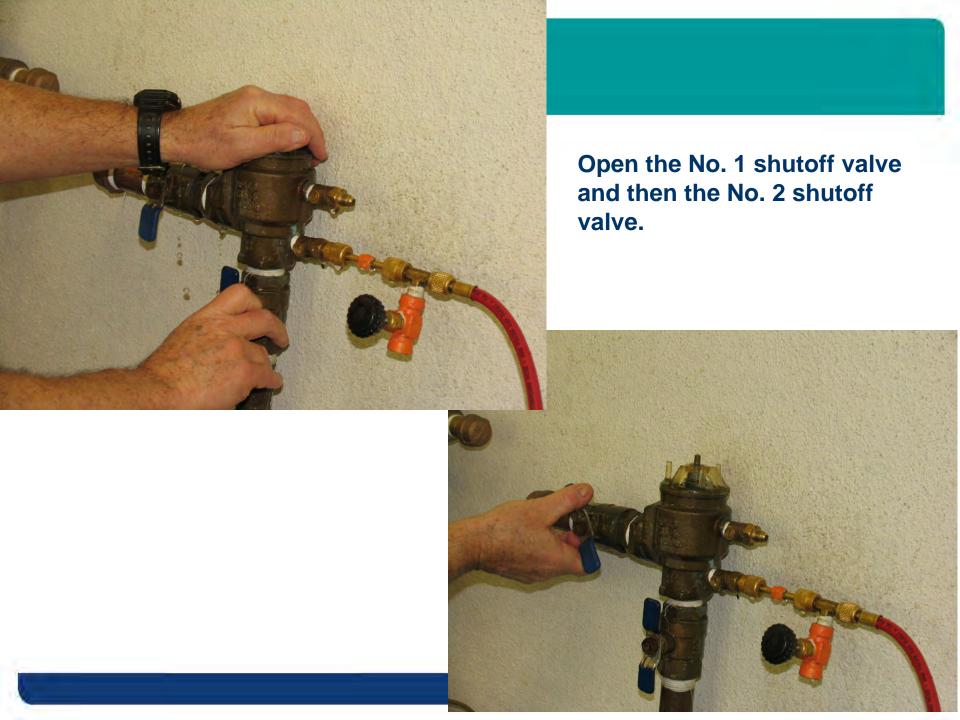


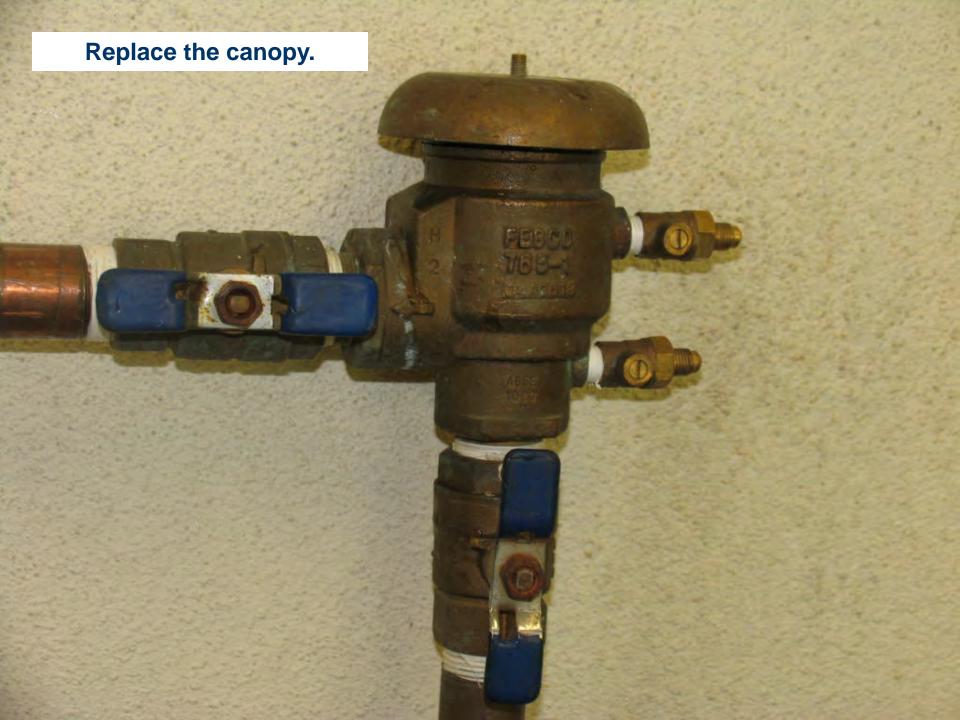








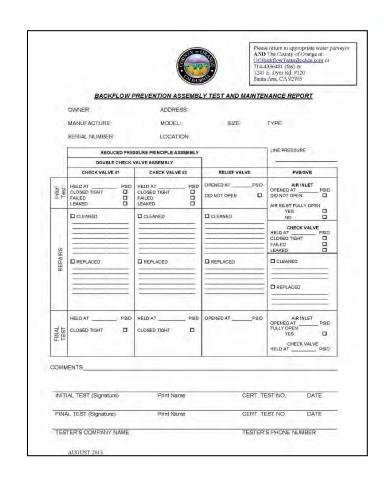




#### **Backflow Testing Review: PVB**

#### **Final Steps:**

- 1. Disconnect all the hoses from the device
- 2. Restore water to the customer (or leave how the shut-off valves were initially found)
- 3. Fill out the test form correctly and completely
- Submit the form to the water purveyor AND OCHCA.





## III. Backflow Testing Proper Position and Handling of Gauge

#### **Proper Position and Handling of Gauge:**

Falsely Passing or Failing Devices



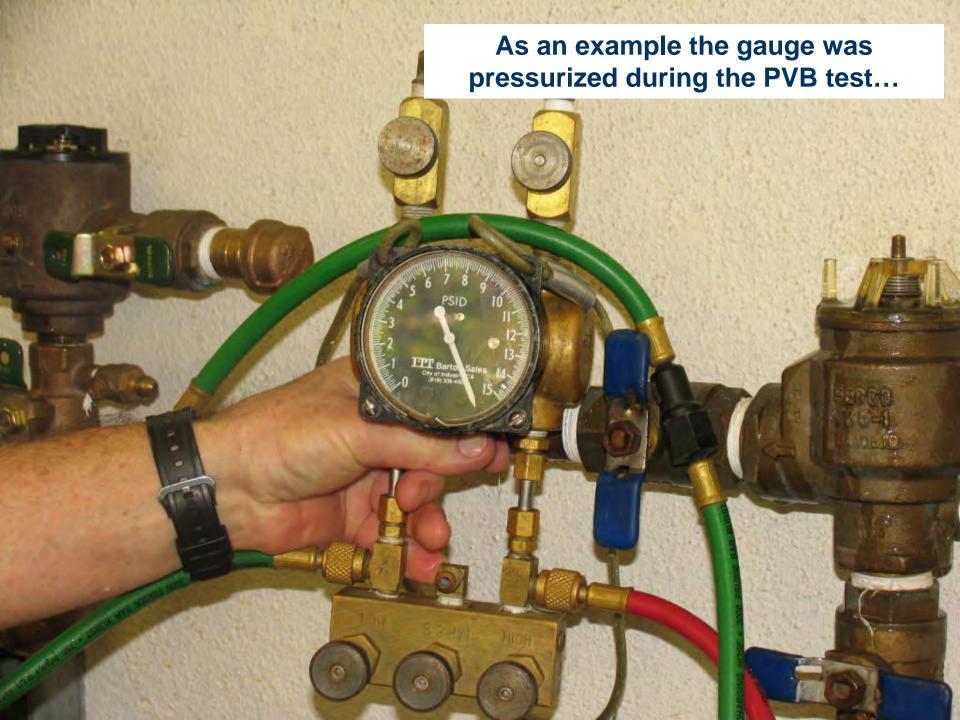


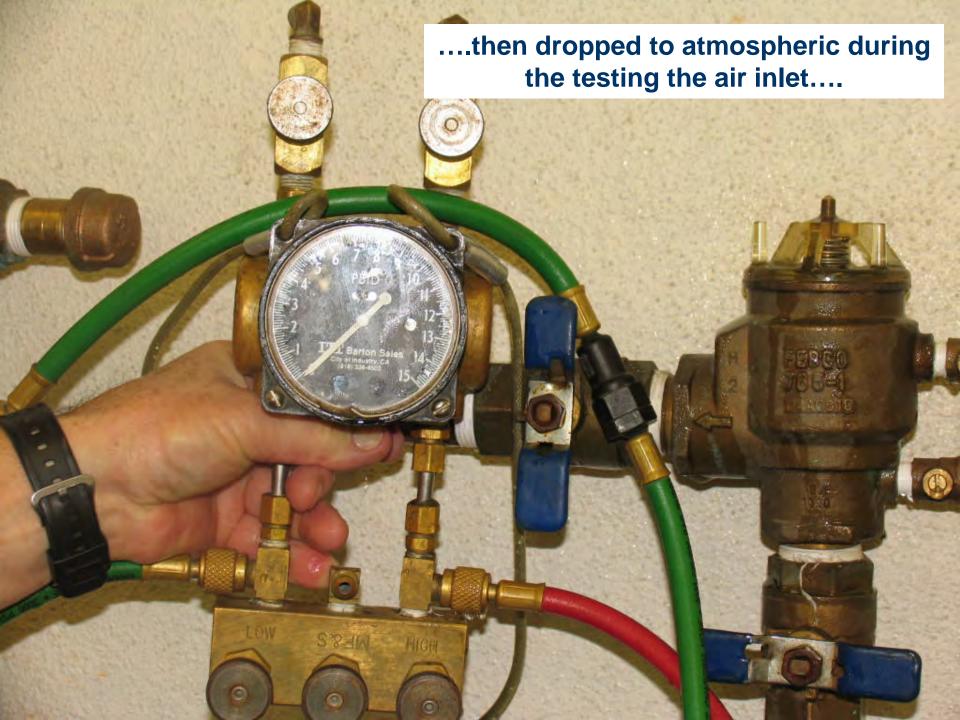


#### Things are not always what they seem!

REMEMBER THAT GAUGE HEIGHT AND LOOSE HOSES WILL AFFECT YOUR READINGS FOR ALL DEVICES EXCEPT THE **RP** ASSEMBLY!!





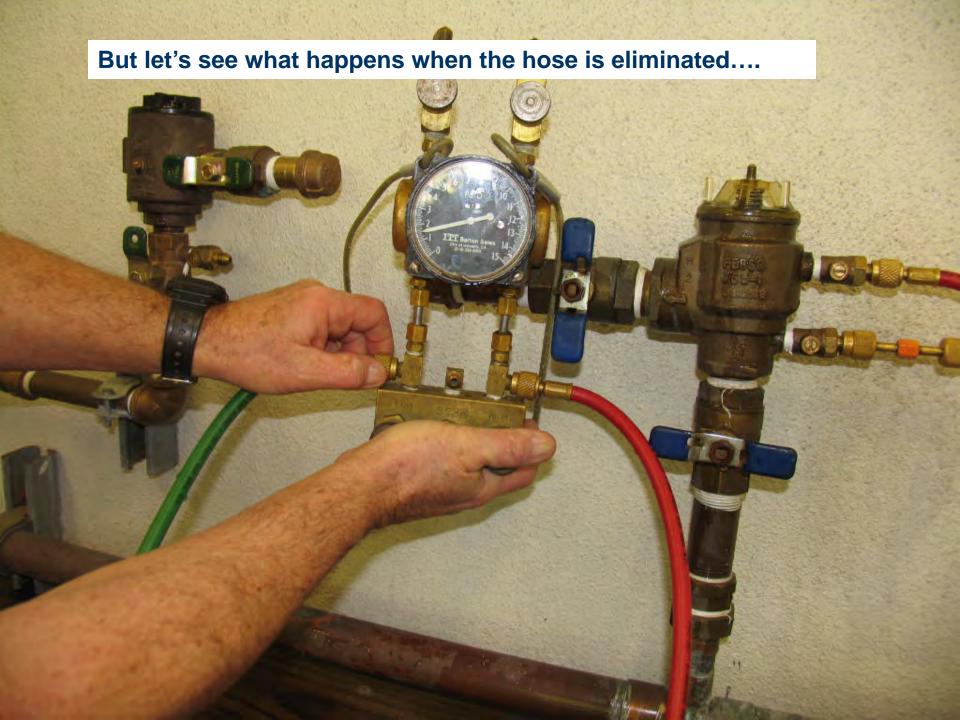




You must be careful to account for dangling hoses and gauge height on DC's, PVB's and SVB's.

Removing the unused hoses is the best idea.







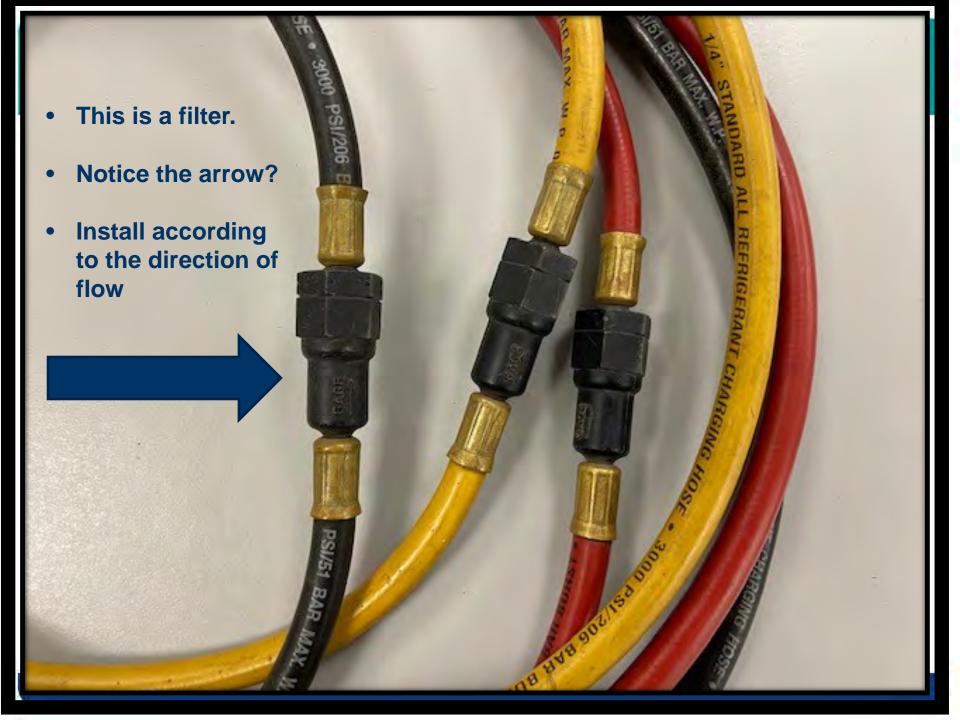


Elevation is also a concern.

With the device held at the height of the water in the column, this double check passes.



But holding it higher than the water in the column actually lowers the pressure causing this device to appear in failure.



## **IV. Submittal of Test Reports**

ealt RE AGEN		HEALTH REGULATOR ENVIROI r Rd #120, Santa Ana, OCBackfik	ITY OF ORANGE CARE AGENCY RY HEALTH SERVICE: NMENTAL HEALTH CA 92705 (714)433-62: DWTests@ochca.com SEMBLY TEST & MAIN	86 FAX: (714)433-6481
WNER:			ADDRESS:	
IANUFAC	CTURER:	MODEL:	SIZE:	TYPE:
SERIAL N	UMBER: REDUCED PRESSURE I DOUBLE CHECK VALVE	Section of the sectio		LINE PRESSURE
	CHECK VALVE #1	CHECK VALVE #2	RELIEF VALVE	PVB / SVB
INITIAL TEST	HELD AT PSID CLOSED TIGHT D FAILED D LEAKED	HELD AT PSID CLOSED TIGHT D FAILED D LEAKED	OPENED ATPSID	AIR INLET OPENED AT PSID DID NOT OPEN
R E P	CLEANED	O CLEANED	CLEANED	CHECK VALVE HELD AT PSID CLOSED TIGHT □ FAILED □ LEAKED □ CLEANED □
R S	☐ REPLACED	D REPLACED	D REPLACED	REPLACED
FINAL TEST	HELD AT PSID CLOSED TIGHT	HELD AT PSID CLOSED TIGHT []	OPENED AT PSID	AIR INLETPSID CHECK VALVEPSID CLOSED TIGHT
PASS  COMM	FAIL [] ENTS		PURVEYOR	u /
	TEST (SIGNATURE)	PRINT NAME	777	STER NO. DATE

- Why do I have to?
- Which reports do I send?
- Who do I send it to?
- What format do I send it in?
- What is the difference between an initial test and a final test report?
- Who reviews these reports anyway?



#### Submittal of Test Reports- Why?

#### Why do you have to submit test reports to us?

- Title 17 Health & Safety Code Section 7605
- The Orange County Cross Connection Control Group Code of Conduct
- Send in a report every time you install, repair, relocate, or test annually a PVB, SVB, DC or RP

"All backflow device test reports must be submitted to the water purveyor <u>and</u> the County Health Department within 10 working days of the initial test, no matter what the result."



#### Submittal of Test Reports: Procedure

- Complete the test report completely.
- Review for mistakes and items that you may have missed.
- Remember to sign your name and include your OC tester #.
- Record comments and observations on the test report!
  - Was it leaking when you arrived? Write it down
  - Was the #2 shut off valve closed when you got there?
     Write it down
  - How did you repair failing devices? Write it down
  - Was the device missing or stolen? Write it down
  - Was the device corroded? Write it down
  - Did bees turn the backflow into a hive? Write it down



### Submittal of Test Reports: Procedure

#### Once the report is ready to hand-in:

Scan the report and save in a PDF format. Name the report as:

**YOUR OC TESTER #- Location of device** 

Examples: 5321- 1241 E Dyer Rd

1234- 1700 Anywhere Street

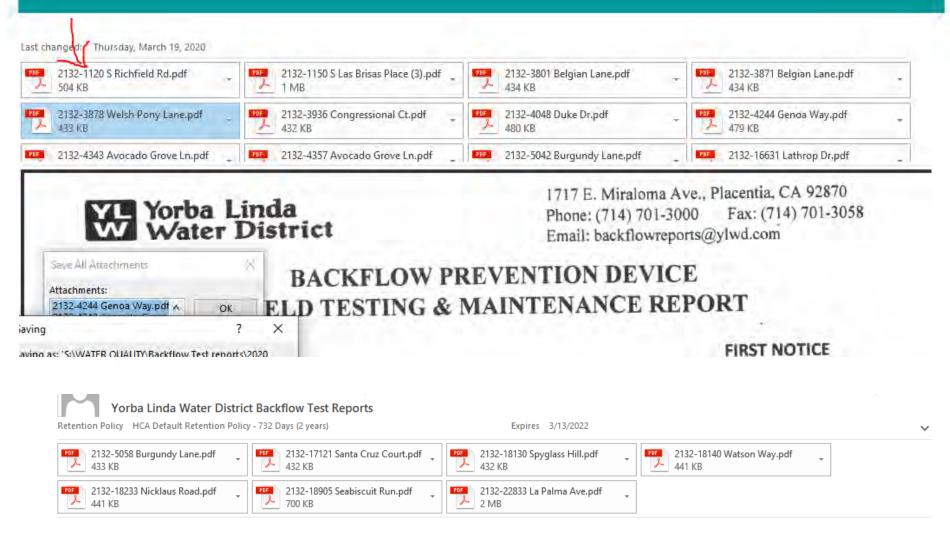
- CC' OCHCA when you email a copy into the water purveyor within <u>10</u> days of testing the device (pass or fail).
- Send reports to OCHCA at:

### OCBackFlowTests@ochca.com

If there must be a delay in the submission of a report, the tester shall contact the water agency Cross Connection Specialist in whose jurisdiction the device is located or OCHCA.



## Submittal of Test Reports: Example





#### **Submittal of Test Reports**

Who reviews these reports anyways?

- The OCHCA Staff
- The water purveyor
- Property owners
- Anyone (including attorneys)- Public Records Act Request

The California Public Records Act is found in the California Government Code, beginning at Section 6250. Records subject to inspection and copying include any writings, meaning any handwriting, typewriting, printing, photostating, photographing, and every other means of recording upon any form of communication or representation, including information available in an electronic format.



#### Submittal of Test Reports: Reminders

- The tester shall ensure that they are using the approved test report form as required by the water agency and/or OCHCA.
- A tester shall not knowingly file a false statement or report regarding a backflow prevention device.
- Ensure that you sign your own reports!





## **V. Certification Testing**





₫ padGraph

#### **Certification Testing- Why?**

#### Why is Certification Important?

- Certification with OCHCA is <u>required</u> to test backflow devices in Orange County!
- Financial benefit: additional employment opportunities
- Employer benefit: qualified staff to do a variety of jobs, more marketability, can be used in hiring process
- Personal satisfaction: strong command of plumbing trade, reflects many years of experience



## **Certification Testing-Why?**

# Why Does OCHCA have Backflow Tester Certification Program?



Health & Safety Code - Section 116810 – To ensure that testing and maintenance of backflow prevention devices are performed by persons qualified to do testing and maintenance, local health officers may maintain programs for certification of backflow prevention device testers.



#### **Certification Testing- More Why?**



**California Code of Regulations Title 17 – Section 7605 (b):** Backflow preventers shall be tested by persons who have demonstrated their competency in testing of these devices to the water supplier or *health agency*.

\*Note: Title 17 may be revised in the forthcoming Policy Handbook by SWRCB Drinking Water Division.



#### **Certification Testing: New Tester Process**

Step #1: 40-Hour Training Course- To qualify for certification in Orange County, a person must first have <u>attended and passed</u> a backflow device tester's course that is approved by OCHCA. The course must provide at least forty (40) hours of instruction covering theory, testing and maintenance of backflow prevention devices, and the applicable laws and regulations relating thereto. Approved tester's courses include, but are not limited to:

- Santiago Canyon College- Water Utility Science 065
- USC Foundation for Cross Connection Control and Hydraulic Research short course
- American Water Works Association (AWWA) backflow class
- Other approved community college backflow testing courses or equivalent



#### **Certification Testing: New Tester Process**

Step #2- Appointment- The applicant must email <a href="https://ocentem.ncbi.nlm">OCBackFlowTests@ochca.com</a> to schedule an appointment to obtain and complete a tester's application form and take the certification exam. You must provide documentation that you have successfully passed a 40-hour class (Step #1).

**Step #3- Certification Exam-** Any person applying for initial certification may be required to pass both a written and a performance (practical) exam. A score of at least 80% must be attained on the written exam in order to qualify for the practical exam.



#### **Certification Testing: New Tester Process**

Step #4- The practical exam consists of correctly testing a pressure vacuum breaker, a spill-resistant vacuum breaker, a double check valve backflow prevention device, and a reduced pressure principle backflow prevention device with a 1-hour time period. Other backflow prevention devices that are approved in the future by the USC Foundation for Cross Connection Control, the State Department of Health Services and OCHCA may also be included in the certification exam.

During the practical examination, a test report form must be completed for each device tested. Additionally, the candidate must also correctly complete a written troubleshooting quiz. A test bench with deliberately failed devices may replace the quiz in the future.



#### **Certification Testing: New Tester Process**

**Note 1:** If you have successfully passed a certification examination by specific third party testers (e.g., AWWA, USC, etc.) AND you submit to OCHCA:

- Contact us at <u>OCBackFlowTests@ochca.com</u>
- Proof of your tester certificate within one (1) year of passing
- Completed application and a current picture
- Backflow tester fee payment

Both the written and practical exam may not be required!





#### **Certification Testing: New Tester Process**

**Note 2:** If you hold a current certification in a neighboring county (e.g., LA, Riverside, Ventura, etc.) and want to get certified with OCHCA:

- Contact us at OCBackFlowTests@ochca.com
- Provide proof of other County certification
- Submit completed application
- Schedule practical appointment
- Pay backflow tester fee
- Pass the practical hands-on exam





# VI. Recertification Testing





## Recertification Steps- Process

**Step #1- Refresher Class-** A tester must have taken an approved refresher class within the time period two (2) years before their recertification date. Orange County Environmental Health offers free refresher trainings online at

https://www.ochealthinfo.com/about-hca/public-health-services/environmental-health-services/water/cross-connection.





## Recertification Testing- Process

**Step #2- Recertification scheduling-** OCHCA will email out recertification notices approximately thirty (30) days prior to expiration. Testers must notify OCHCA of an email or other contact information change immediately. After you receive the reminder notice, follow the instructions to sign up for an appointment on ochealthinfo.com/eh.

- It is the tester's responsibility to schedule and take their own recertification exam.
- We may open up the testing room for some training days, so please read carefully.





#### **For recertification** follow the following steps:

- Step 1- Click here to schedule an backflow tester recertification appointment.
- Step 2- Enter your first name, last name, and cell phone #. Your cell phone number is associated to your appointment. Cell phone numbers cannot be shared by multiple testers. Click next ->
- Step 3- Enter your email address and business name (if applicable). Click next->
- Step 4- Select the Backflow Tester Button and select Backflow Test Scheduling. Click next->
- Step 5- Select Schedule an appointment for another day and time. Click next->
- Step 6- Select the date and time of your appointment. You will receive a text message with information about your appointment.
- Step 7- Enter your email. Click next->
- Step 8- Enter your OC Tester # or New, the date of your last refresher class or new, and the refresher class provider or new. Click next->
- Step 9- Click done
- Step 10- Additional email instructions (see attachment) will be mailed to you from the QLess system. Please ensure to read these instructions thoroughly and complete all required paperwork prior to your appointment. If you do not receive the email, check your junk mail and allow for emails from the QLess system.



Step #3- Day of your test- Your test will be held at the OCHCA building at 1241 East Dyer Rd, Santa Ana CA 92705



- Bring your method to pay, completed <u>application</u>, ID, proof of refresher class, test gauge, and proof of test gauge calibration.
- Review the Code of Conduct before your appointment.



#### **Step #4- Go into the Lobby-**

- Park at the <u>front</u> of the building. Access to the lobby is no longer available from the backside of the building.
- Obtain a parking pass and place it in your vehicle or park in guest parking.
- Enter and wait in the Environmental Health lobby at or before your appointment time until you are alerted to come up to the counter.
- Provide staff your completed <u>application</u>.
- Pay for the backflow refresher recertification when prompted.
- Wait until staff escorts you from the lobby to the testing cage.



**Step #5- Test area-** Walk with your proctor to the testing area in the back. Provide the proctor with confirmation of gauge calibration and backflow refresher. The proctor will read detailed instructions to you before you begin. For your and our safety, cameras may be present in the back of the building and inside the testing lab.





#### Recertification- The Practical

#### **Step #6- Practical Test**

- One (1) hour to complete both parts to pass
  - Unlimited attempts within an hour
- 1. Successfully test <u>all four (4)</u> devices per USC 10<sup>th</sup> Edition testing procedures:
  - Reduced pressure principle backflow prevention assembly (RP)
  - Double check valve (DC)
  - Spill resistant pressure vacuum breaker assembly (SVB)
  - Pressure vacuum breaker (PVB)
- 2. Troubleshooting questions
  - Correctly answer all three (3) written questions





#### Recertification- Reminders

- Recertification consists of the practical test and fee payment only if the tester is recertifying within one (1) year of their OCHCA expiration date or if they are currently certified in neighboring county AND have taken the refresher class within the last two (2) years.
- If the OCHCA certification is expired more than one (1) year, but less than two (2) years, the tester will need to take a refresher class, the written exam, and the hands-on practical exam.
- If the OCHCA certification is expired for two (2) or more years, the tester will need to pass a 40-hour training course, the written exam, and the hands-on practical exam.

<sup>\*</sup>Tester fee payments apply to all of the above scenarios.



# Recertification- After you pass!

#### **Step #7- After the Practical-**

- After passing the exam, take photo for ID.
- You may then pay for Approved Tester List.



• Approved Tester List- A certified tester may choose to be placed on the list of OCHCA certified testers. To be placed on the certified tester list, a tester must be currently certified by OCHCA and pay the tester's list fee. The OCHCA list is organized by city, with testers listed under one city on the basis of the seniority of their tester number. The tester list is organized in this way to facilitate a business' attempt to find testers working in their area. Although a tester is listed under one city, he/she may test throughout Orange County.



# Recertification- If You Don't Pass 3

#### **Alternate Step #7- After the Practical-**

- You can test with OCHCA three (3) times during a six (6) month period.
  - Each test will require a separate fee payment
  - You may get a different proctor
  - You may get a different troubleshooting test
  - Study the USC Manual of Cross Connection 10<sup>th</sup> Edition!
- If you do not pass after the 3<sup>rd</sup> try, you will have to wait until the next recertification period and take another refresher class.



# VII. Enforcement





#### **Enforcement**

California Health and Safety Code Section 116820 states:

"The local health officer may suspend, revoke or refuse to renew the certificate of a tester, if, after a hearing before the local health officer or his designee, the local health officer or his designee finds that the tester has practiced fraud or deception or has displayed gross negligence or misconduct in the performance of his or her duties as a certified backflow prevention device tester."

\*OCHCA is the local health officer for all of Orange County.



#### Enforcement

- Also, failure to adhere to the Code of Conduct for Backflow Prevention Device Testers Certified in Orange County
- OCHCA requires you to review and sign that you will abide by the Code of Conduct at every certification/recertification



#### Code of Conduct for Backflow Prevention Device Testers Certified in Orange County

The Orange County Cross Connection Control Group (OCCCCG) exists to provide all of its members with a professional atmosphere in which to discuss existing procedures and to become familiar with new developments in the field of cross connection control and to encourage improved quality of service, professionalism, and programs. To this end, we, the members of the OCCCCG require the following Code of Conduct for backflow device testers certified in Orange County:

- A tester must have a current tester certification from Orange County Environmental Health (County Health Department) to test backflow prevention devices in Orange County.
- 2. A tester must not knowingly falsify the results of backflow device field tests performed by him.

#### EXAMPLES:

- · Signing backflow test reports for tests he did not perform.
- Making unneeded repairs.
- · Not having proper backflow certification to perform tests in Orange County.
- · Not using proper test procedures as established by Orange County Environmental Health.
- · Using unauthorized backflow test equipment.
- A tester must not remove, replace, or relocate a backflow device without the approval of the water purveyor or the Orange County Health Department
- 4. All backflow device test reports must be submitted to the water purveyor and the County Health Department within 10 working days of the initial test, no matter what the result. If there is a specific problem relating to the test or the test report form, the tester must call the water agency or the County Health Department.
- All backflow reports must be submitted on proper forms. They must be legible and contain all appropriate information pertaining to the test.
- A tester must attend a backflow prevention device tester update seminar at least once every two years. The seminar must review current test procedures and be approved by Orange County Environmental Health
- It is the tester's responsibility to inform Environmental Health of any changes in their address, phone
  numbers, etc. To report changes, contact Sham Elmishad at (714) 433-6284 or email changes to
  HElmishad@ochea.com and Erasmo Jacinto at (714) 433-6288 or email changes to
  Elacinto@ochea.com

Any tester failing to comply with the provisions of this Code of Conduct is subject to disciplinary action. The results of the action can be the loss of testing privileges in the county or in a water purveyor's jurisdiction. Also, it is a misdemeanor violation to knowingly file a false test report.

Adopted: 4/27/1989 Revised: 4/16/2020



#### **Enforcement:** Reminders

- 1. A tester must have a current tester certification from OCHCA to test backflow prevention devices in Orange County.
- 2. A tester must not knowingly falsify the results of backflow device field tests performed by him.

#### **EXAMPLES:**

- Signing backflow test reports for tests he did not perform.
- Making unneeded repairs.
- Not having proper backflow certification to perform tests in Orange County.
- Not using proper test procedures as established by Orange County Environmental Health.
- Using unauthorized backflow test equipment.
- A tester must not remove, replace, or relocate a backflow device without the approval of the water purveyor or OCHCA.



#### **Enforcement:** Reminders continued

- All backflow device test reports must be submitted to the water purveyor and OCHCA within 10 working days of the initial test, no matter what the result. If there is a specific problem relating to the test or the test report form, the tester must call the water agency or OCHCA.
- 4. All backflow reports must be submitted on proper forms. They must be legible and contain all appropriate information pertaining to the test.
- A tester must attend a backflow prevention device tester update seminar at least once every two years. The seminar must review current test procedures and be approved by OCHCA.
- It is the tester's responsibility to inform OCHCA of any changes in their address, phone numbers, etc. To report changes, contact Sham Elmishad at (714) 433-6284 or email changes to <a href="https://example.com">HElmishad@ochca.com</a> and Erasmo Jacinto at (714) 433-6288 or email changes to <a href="mailto:EJacinto@ochca.com">EJacinto@ochca.com</a>.



#### **Enforcement-** *How?*



- Test reports reviewed by both the water purveyor and OCHCA for "red flags"
- We do random auditing
- Each water purveyor has unique auditing processes
- Onsite random back testing is done
- Onsite specific back testing –
   with cause is also done
- Phone inquires with testers and onsite managers
- Complaints and concerns are addressed with a thorough investigation



#### Enforcement—Some Examples of "Red Flags"

- Missing data
- Conflicting data
- Report results for the wrong device
- Missing signature/tester info
- Missing final report post repairs
- Reporting results for untenable or uninstalled devices
- Testing with expired certification
- Allowing non-certified testers to test devices
- Performing unneeded repairs
- Not using approved test procedures (Currently USC Manual of Cross Connection 10<sup>th</sup> ed.)
- Using unauthorized or non-calibrated backflow test equipment.
- Complaints from other testers, water purveyors, customers, etc.





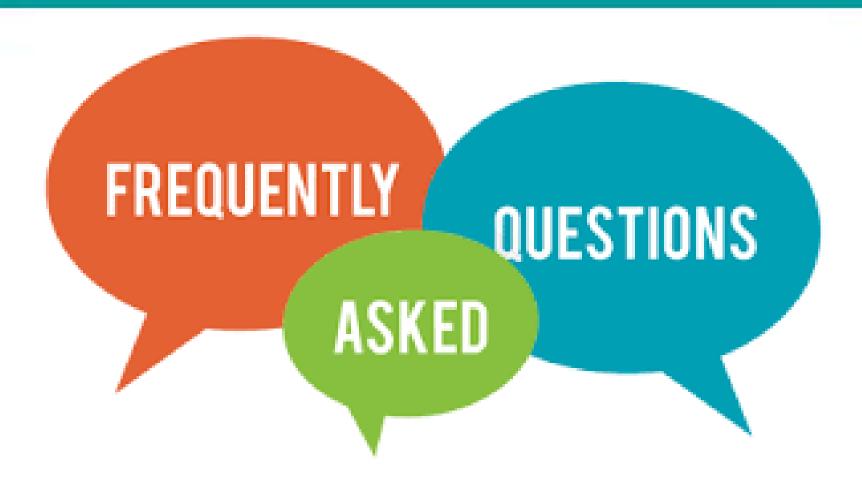
#### **Enforcement-** OCHCA Procedure

OCHCA completes some or all of the following actions during an possible enforcement situation:

- Data collection and inspections (back testing)
- Collaboration with the water purveyor
- Phone calls to all parties involved
- Office meetings to discuss issues
- Disciplinary hearing is held
- Suspension notice issued temporary or long term (1-2 years or indefinitely)
- Suspension terms are defined
- Possible referral to the District Attorney's office for prosecution



# VIII. FAQs





## VIII. FAQs- General

#### Who do I contact with questions?

Lauren Robinson	(714) 433-6280	LRobinson@OCHCA.com
Sham Elmishad	(714) 433-6284	HElmishad@ochca.com
Erasmo Jacinto	(714) 433-6288	EJacinto@ochca.com

#### What happened to the following OCHCA Water Quality staff?

- Pauline Liu- City of Anaheim
- Larry Brennler- Retired
- Jennifer Reyes- Mesa Water District
- Kristen Schroeder City of Huntington Beach
- Lauren Hatch Irvine Ranch Water District
- John Banoczi Retired
- Marty Friebert Retired
- Larry Finch- Retired



#### **FAQs-** *General*

#### Methods of Payment for the test

- Cash
- Credit Card must have identification
  - Must be in your name or if another person is paying they must be present
- Check
  - The check must be YOURS (personal) or the Company you work for
  - NO personal checks from another person will be accepted UNLESS the other person is with you and has identification



## FAQs- Backflow Tester List

#### **BACKFLOW PREVENTION DEVICE TESTERS**

The following Backflow Prevention Device Testers are certified by the Orange County Health Care Agency. Division of Environmental Health as of April 15, 2020.

Note: Although the testers are listed under a specific city or County area they are certified to test throughout Orange County. A business license and/or plumbing permit may be required by the city in which the work is being conducted. Also, State law requires that anyone who contracts to do construction work be licensed by the Contractors State License Board in the license category in which the contractor is going to be working if the total price of the job is \$500.00 or more (including labor and materials). A State Contractors License is not required for the testing of backflow devices as long as the total cost of the work is under \$500.00.

#### Aliso Viejo

F.A.S.T. Fire Protection David Webb #1357 (949) 766-3226

H20 Backflow Service Reynold Olms #2205 (949) 400-8276

The Backflow Guys Denis LaVertu, Sr. #2068 (949) 412-8749 (949) 380-9751 FAX

National Backflow, Inc. Michael Crume #2478 (949) 273-8614 (949) 273-8615 Fax

Blue Water Backflow Bahram (Bob) Sarwary #3281 (949) 335-2314

Abackflow Service Tech James Hadley #2409 (949) 433-6632

South Coast Backflow Jose Lienas #3321 (714) 709-6215

Backflow Time Andrew Rithmaki #3174 (800) 678-8979

#### Anahein

Backflow Apparatus & Valve Co. (BAVCO) Bob Purzycki #288 (714) 891-5605 (800) 458-3492

Thomas Plumbing Co. Thomas Miller #977 (714) 527-5201 (714) 801-7315 (Cell)

Gene Pira #441 (818) 342-4744

Aabco Plumbing Eric Notziger #1772 (714) 307-9438 (714) 817-8569 Fax

Prevent Backflow & Plumbing James Motis #1980 (714) 635-9902

Aqua Backflow & Chlorination, Inc. Kelly Kieswetter #2502 (888) 598-7251

Backflow Testing & Service Co. Noel Trevino #2443 (310) 316-8245 (310) 487-9909

AAA Companies Aaron Dricker #2647 (800) 892-4784

Anthony's Plumbing Anthony Tubbs #2780 (855) 720-4366

#### Anaheim

Pennine Plumbing Christopher McGrall #2543 (562) 407-2724

Ramsey Backflow & Plumbing Adam Ramsey #2930 (714) 778-8444

Living Waters Backflow Jarrod Burris #2446 (760) 646-0194

Los Angeles Plumbing and Backflow Inc. Esteban Espindola #2760 (626) 814-0818

Cintas Fire Protection Justin Colannino #2926 (800) 841-9696

NIR Plumbing Serio Cortez #3040 (951) 300-6681

Accurate Backflow Testing Sean Vincent #3061 (818) 909-7880

2 The Point Environmental Services Walld Makhlouf #3069 (714) 305-9894

Go Fire Protection Ryan Golub #3067 (951) 310-2709

AE Landscape Design Brian Bluhm #3094 (909) 980-8300

- Once you successfully recertified with OCHCA, you can choose to be on the OCHCA backflow tester list
- Remember that to be placed on the list you will have to submit a separate payment!
- The Backflow Tester list can be viewed here:

https://www.ochealthinfo.com/eh/water/bftesters



If you sign up for a 8:00-9:30 AM appointment, when should you arrive?

In this example, you should be in our lobby at 8:00 or before. Your appointment will run from 8:00-9:30 AM. Please try to be on time, we are typically booked solidly all day. If you are late for your appointment, this compromises our ability to provide you a 1-hour test time frame and impacts the testers scheduled after you. We may have to reschedule you to a different time or day. Please contact us or text "C" to QLess if you are unable to make your appointment when it is assigned.



Do I have to pay before I take the hands-on practical for recertification? YES

What if I do not pass? Do I get a refund? NO

\*Please study and be prepared\*



What if I haven't taken an update seminar in the last 2 years and come in for the hands on test for recertification?

You can no longer take the hands on test for recertification until you have attended a backflow prevention device tester update seminar.

The seminar must review current test procedures. (ex: AWWA, ABPA, IAPMO, USC or other approved)

Bring proof of attendance with you to your appointment if you do not complete the OCHCA refresher.



Study the USC Manual of Cross-Connection Control 10th Edition!!!!



Do NOT rely on YouTube videos to study!!!!!

## IX. Coming Soon

#### **Cross Connection Control Policy Handbook**



- The Division of Drinking Water of the SWRCB is developing a handbook to be released in 2022, which will repeal Title 17.
- Title 17 mandated cross-connection control regulations since 1987 across California.



# **Handbook – Potential Impacts**

- Clarification of language for PWS/Water Districts/Purveyors, including denial or discontinuation of water service if no corrective action is taken to maintain backflow prevention.
- Each PWS/Districts/Purveyors may require a schedule for ensuring 100% of backflows in system will be tested.
- May require Database of backflow inventory, testing records, hazard assessments, and testers.
- PWS/Districts/Purveyors may expand oversight of backflow tester certification, detecting falsified reports, corrective measures.
- The state may allow ANSI (American National Standards Institute) as third party entity to create certification standards for organizations who certify specialists and backflow testers.



## X. Quiz

#### Click Here for the Quiz!

- Submit your quiz to <a href="mailto:OCBackflowtests@OCHCA.com">OCBackflowtests@OCHCA.com</a>
- After you submit your quiz, you will receive an email within the next week with either:
  - Your certificate of completion
  - OR instructions to re-take the quiz because you did not score at least a 70%.



# Thank you and stay safe!

