

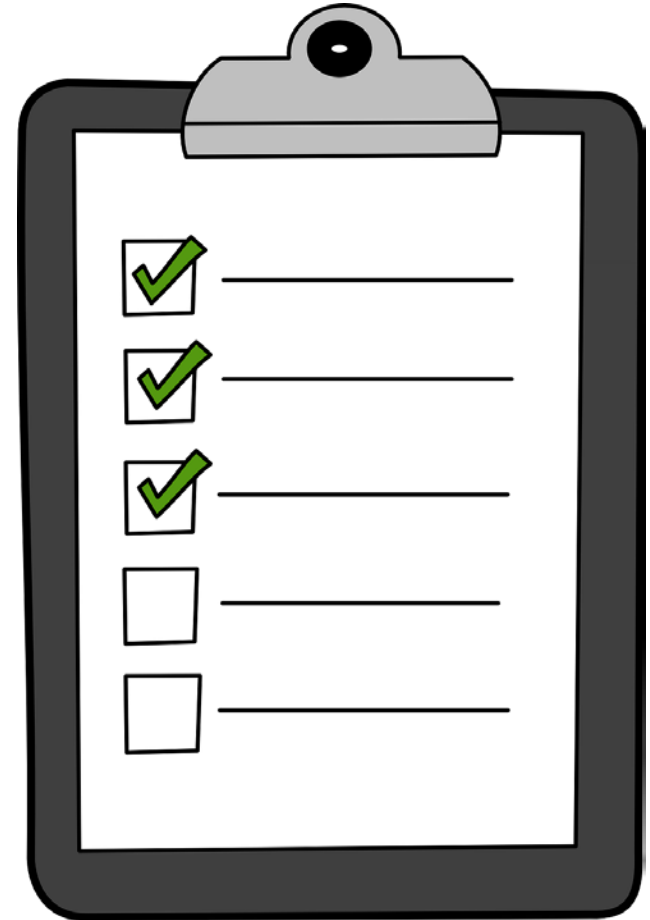
Orange County Backflow Tester: *Online Refresher Class*



2020

Agenda

- I. Instructions
- II. Introduction
- III. Backflow Testing Review
 - RP, DC, SVB, PVB
- 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 OCBackFlowTests@OCHCA.com. 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 OCBackFlowTests@OCHCA.com if you have any questions and type “**2020 Backflow Tester Training**” in the Subject line of the email.

***NOTE: Orange County Health Care Agency= OCHCA (the health department)**

II. Introduction

Dear Backflow Testers,

Due to social distancing restrictions from COVID-19, this session we are offering our backflow training online. Below are some tips from the State Water Resources Control Board concerning backflow testing during this unprecedented time:

- Any newly discovered cross connections must be corrected immediately to protect public health: locking out water meters while corrective actions are being taken would be appropriate if it is needed to prevent distribution system contamination.
- Backflow prevention device testing should continue as scheduled when possible. However, since testing is an annual requirement, Public Water Systems (PWS) should consider providing flexibility to customers on device testing due dates, provided testing can be completed within the calendar year.
- Failed devices should be repaired or replaced immediately. PWS should consider providing assistance to customers to ensure testing and corrective actions can be completed in a timely manner, for example, device repair and replacement services when testers or contractors are not available, or customers are unable to coordinate.
- Recycled water use site cross connection tests should continue as scheduled when possible, but flexibility should be considered, provided they are completed within the calendar year.
- Backflow testers are essential workers, whether they are PWS employees, are contracted by the PWS, or are hired directly by customers.
- Most backflow devices should be in areas where maintaining safe social distance would not be a concern. For devices where a safe distance cannot be maintained (for example, interior devices) consider deferring those tests until later in the year and moving up other, safer test locations.

Please remember that both **you** and **your work** are important in ensuring the safety of the public water system. Thank you, stay safe out there, and remember to wash your hands!

III. 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 <https://fccchr.usc.edu/fieldtestkitslist.html>
 - ▶ Refer to the USC Manual of Cross-Connection Control 10th 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

List of Approved Backflow Prevention Assemblies

The List of Approved Backflow Prevention Assemblies continues to be a valuable source of information for anyone involved in cross-connection control. Keeping up-to-date with the most current List is crucial. The best way to stay current is downloading the List from the USC Foundation's website since it is updated as changes are made to the List.

USC University of Southern California

List of Approved Backflow Prevention Assemblies
6 September 2012 Supersedes All Prior Lists

Orientation of Assemblies

Key: (H) Horizontal (V) Down (V) Vertical (U) Up
□ Shutoff Valve
○ Air Inlet Valve
→ Direction of Flow

NOTICE REGARDING RENEWALS:
The original Certificate of Approval—identified by the Edition of the Manual and the Approved date shown below—is valid as of the date of this list, only if the original or renewal date shown hereon is within three (3) years of the date of this list. The responsibility to require a renewal of an Approval is that of each manufacturer. The Foundation retains the right of determining the extent of re-evaluation required before renewal is granted. Certifications of Approval are not recalled for the purpose of updating the effective date. This revision of date is only published via the current List of Approved Backflow Prevention Assemblies.

NOTICE REGARDING INSTALLATION:
Unless otherwise specified by the manufacturer all assemblies are to be installed on cold potable water applications - below 110°F. Also all of the assemblies listed are Approved for INDICATED ORIENTATION ONLY (Please see the legend below). Rotation of assemblies on either axis will invalidate the Foundation's Approval. Use of spare parts other than those of the original manufacturer invalidates the Approval. Rotation of shutoff valves of one bolt hole only is permitted only for the 2 1/2" and larger flanged assemblies.

NOTICE REGARDING LEAD CONTENT:
In order to comply with recent lead-free requirements in California and other states, Foundation Approved assemblies which comply with the 5.0 25% Pb requirement are indicated by a Y in the column 5.0 25% Pb. More information on the California requirements may be found at: <http://www.dtsc.ca.gov/HealthProtection/PreventionofContamination/rlw.cfm>

NOTICE REGARDING LIST UPDATES:
The List of Approved Assemblies is printed annually in the first quarter of the year. Update notices are printed and sent to Members quarterly. The most recent changes to the List may be found on the Foundation's website. The web version of the List is updated each time a change is made.

The List is comprised of backflow prevention assemblies, which have successfully completed the laboratory and field evaluation phases of the Foundation's Approval Program. The backflow prevention assemblies are approved for a period of three years and this approval is subject to renewal.

Download Now

[Excel \(Complete List\)](#)

[PDF \(Complete List\)](#)

[Web App \(Mobile Devices\)](#)

[PDF \(New Additions Only\)](#)

Buy Now

[2016 USC List](#)

Lead Free Parts

[Spare Parts Information](#)

Added Benefit for USC Foundation Members

The List is updated numerous times

— year and keeping up to date with

III. Backflow Testing Review: *RP*



Backflow Testing Review: *RP*

Equipment required:

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

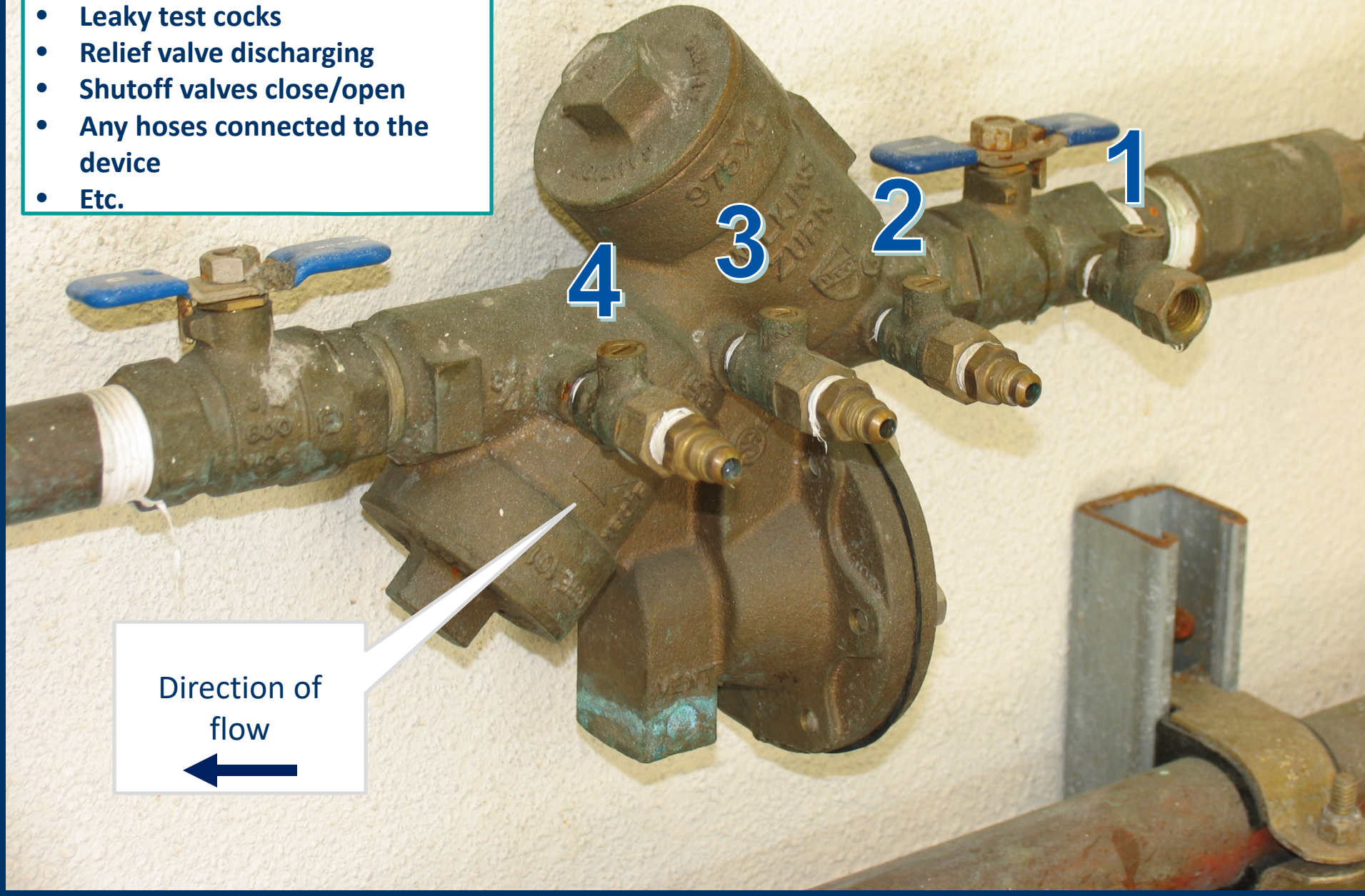
Backflow Testing Review: *RP*

Preliminary Steps

- Notify
- Identify
- Inspect
- Observe

Upon arrival, what do you observe?

- Direction of flow
- Leaky test cocks
- Relief valve discharging
- Shutoff valves close/open
- Any hoses connected to the device
- Etc.



Direction of flow



**Open No. 4 test cock
and leave it running.**



**Open No. 3 test cock
and leave it running.**





**Open No. 2 test cock
and leave it running.**



**Open No. 1 test cock
and leave it running.**

**All test cocks are
running at this point.**



Close No. 1 test cock.



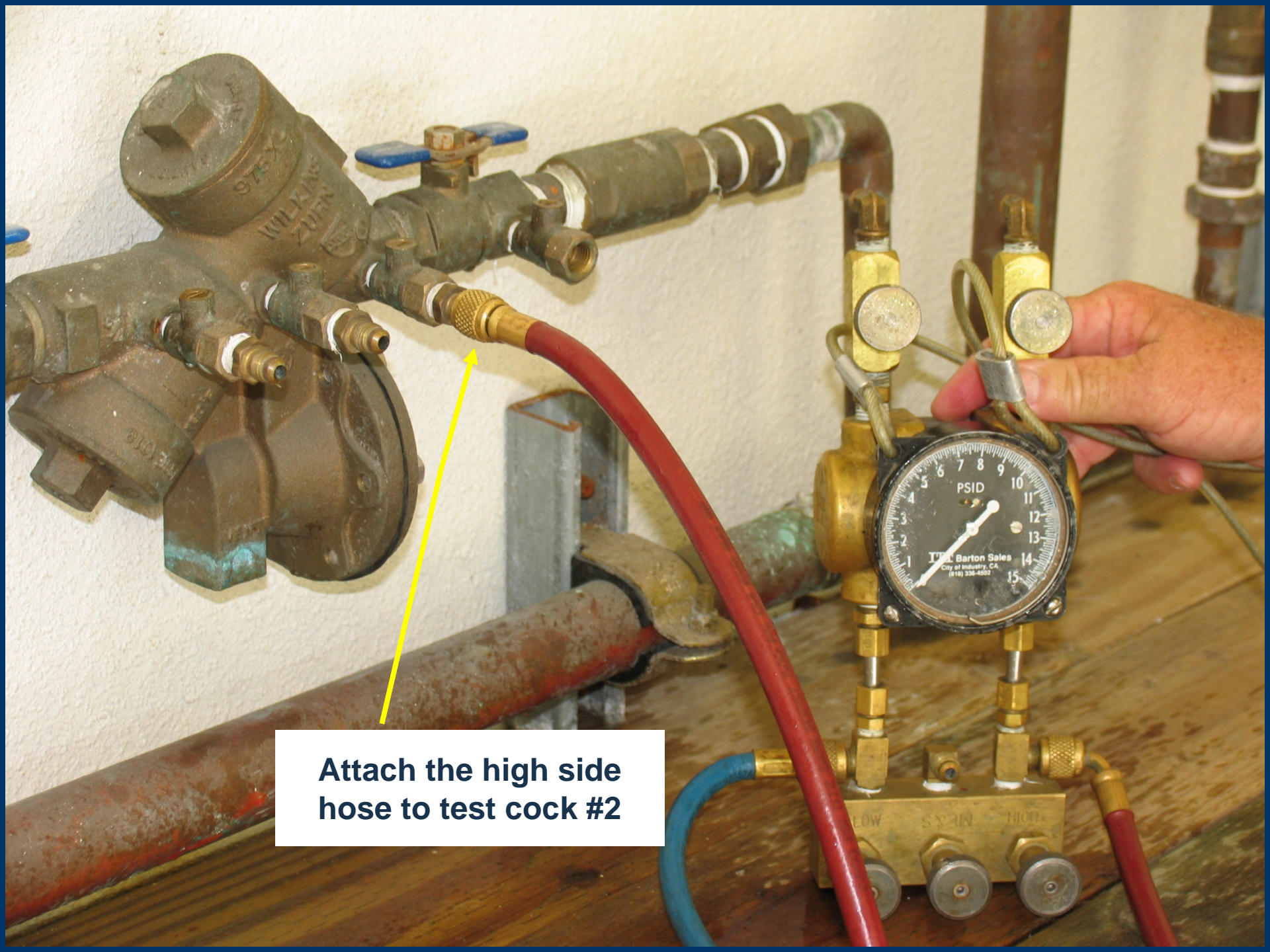
Close No. 2 test cock.



Close No. 3 test cock.

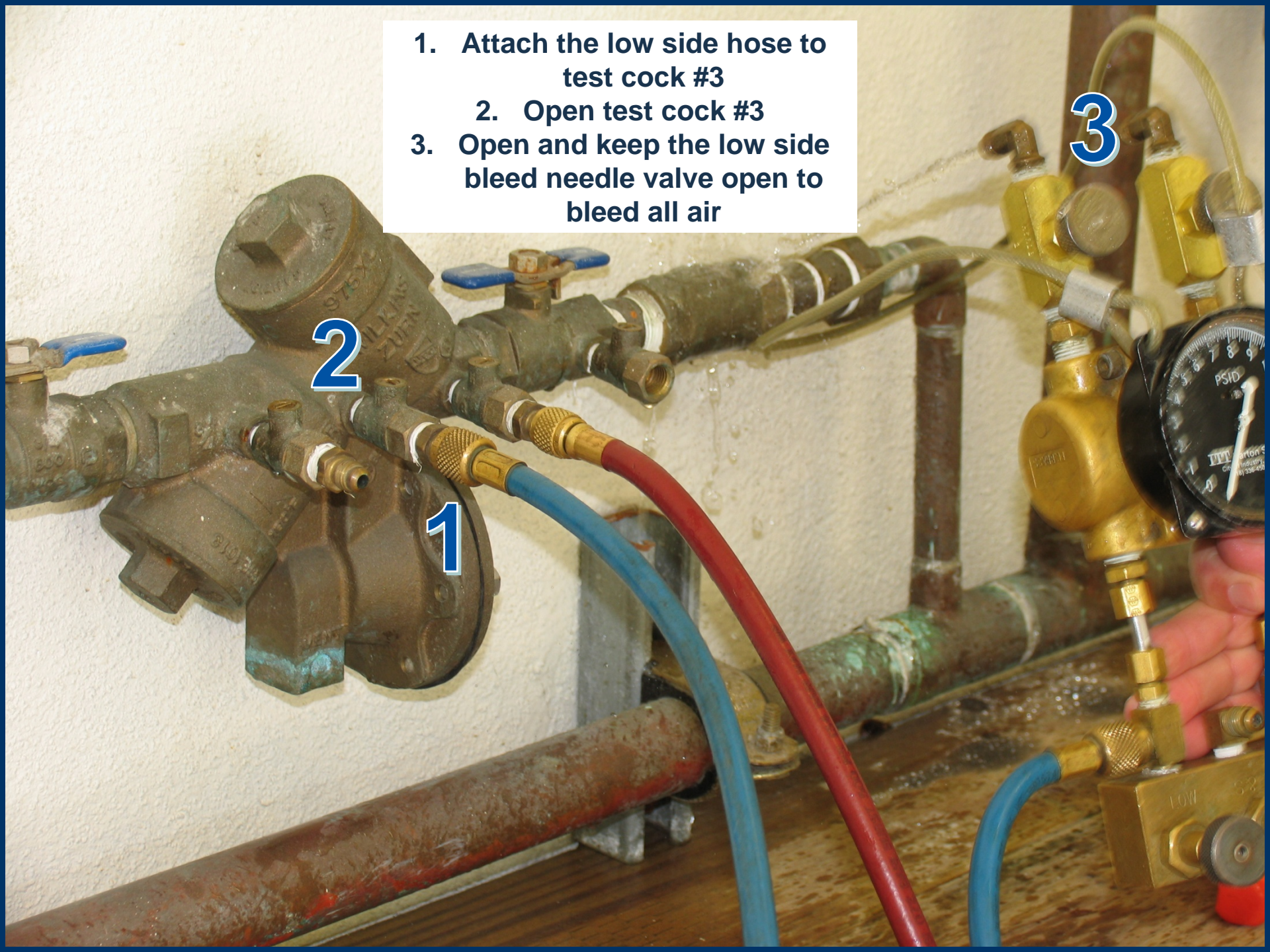


Close No. 4 test cock.



**Attach the high side
hose to test cock #2**

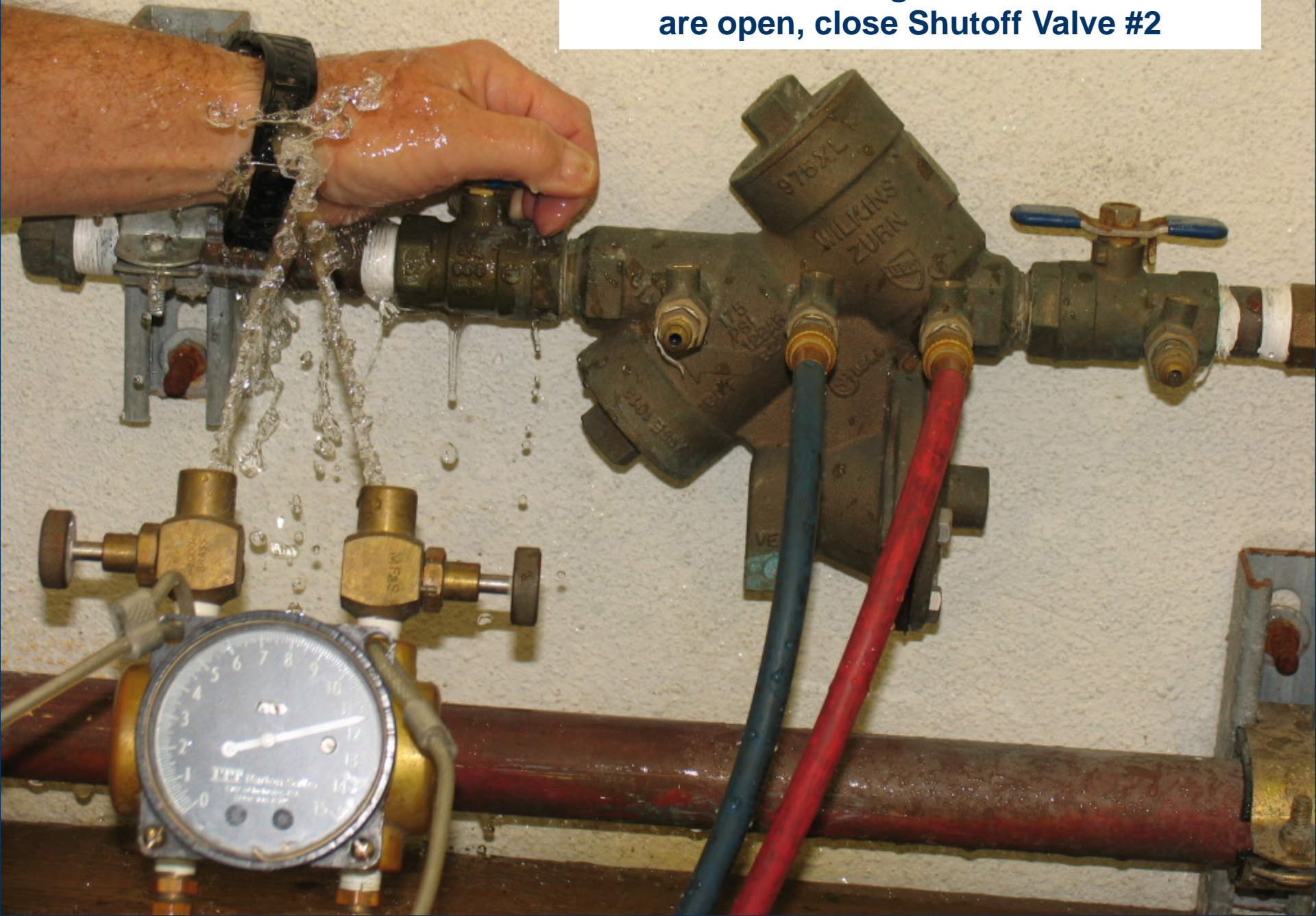
1. Attach the low side hose to test cock #3
2. Open test cock #3
3. Open and keep the low side bleed needle valve open to bleed all air



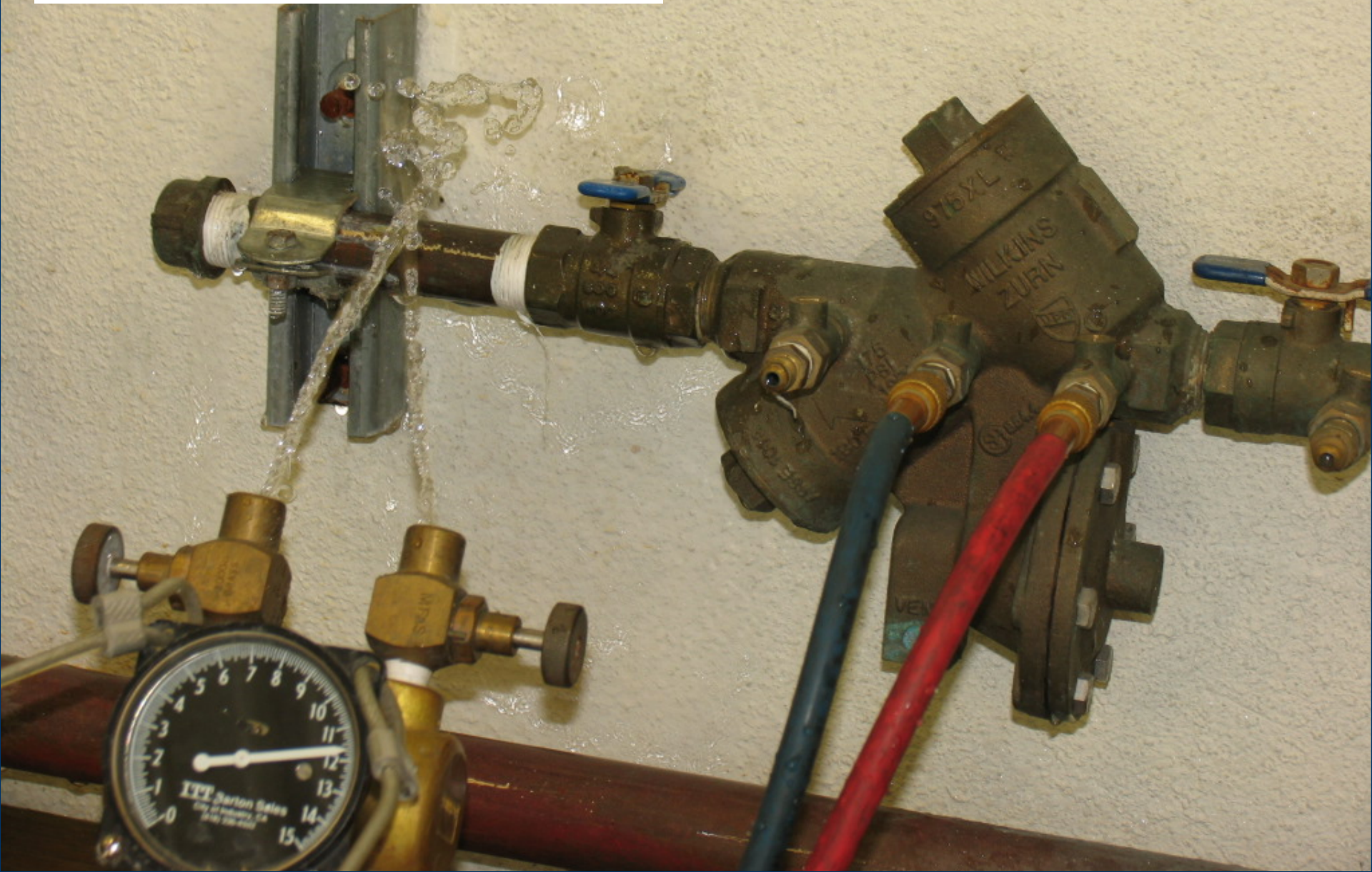
1. Open No. 2 test cock
2. Open and keep the high side bleed needle valve open to eliminate the air.



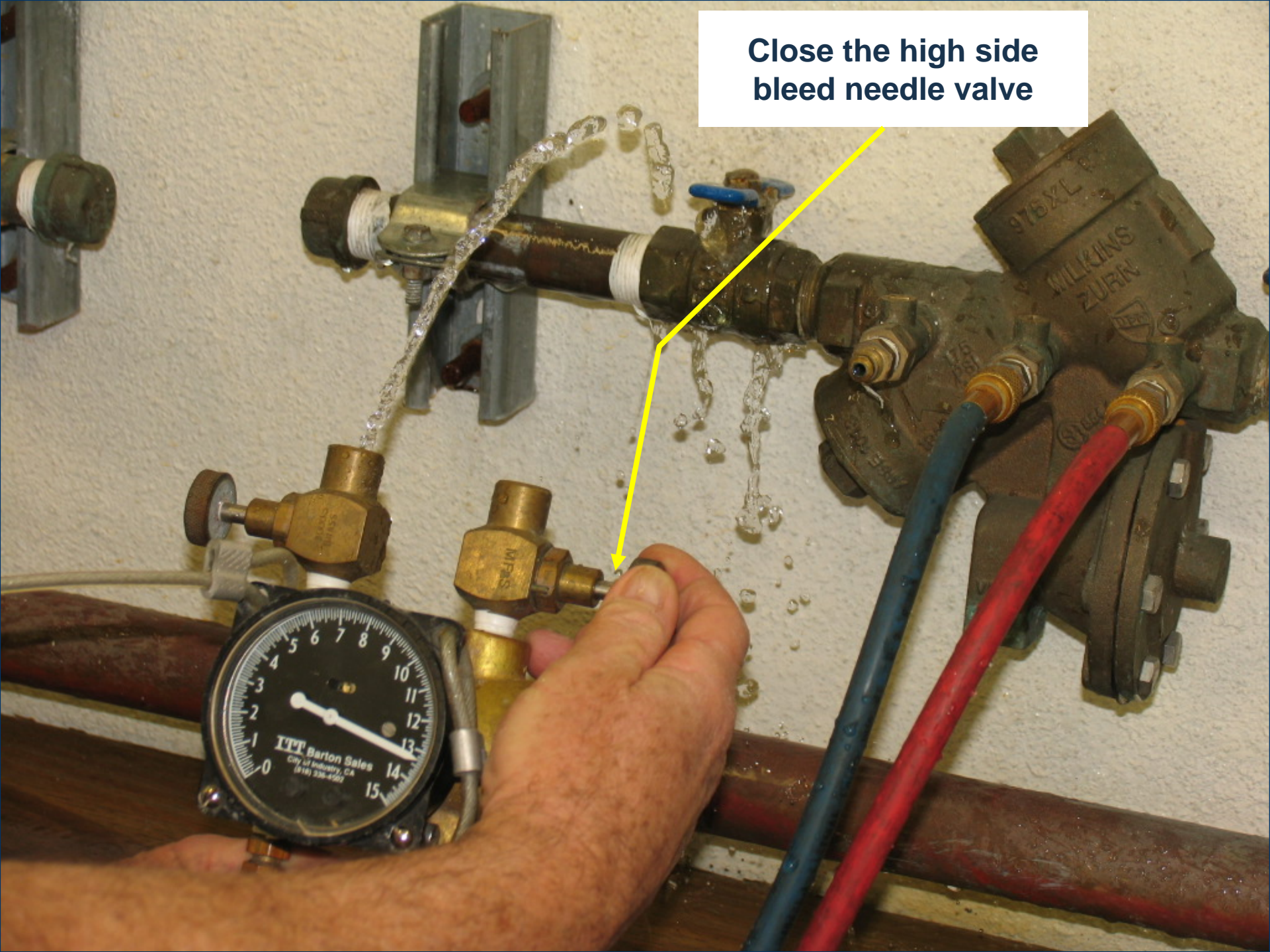
While the low and high bleed needle valves are open, close Shutoff Valve #2



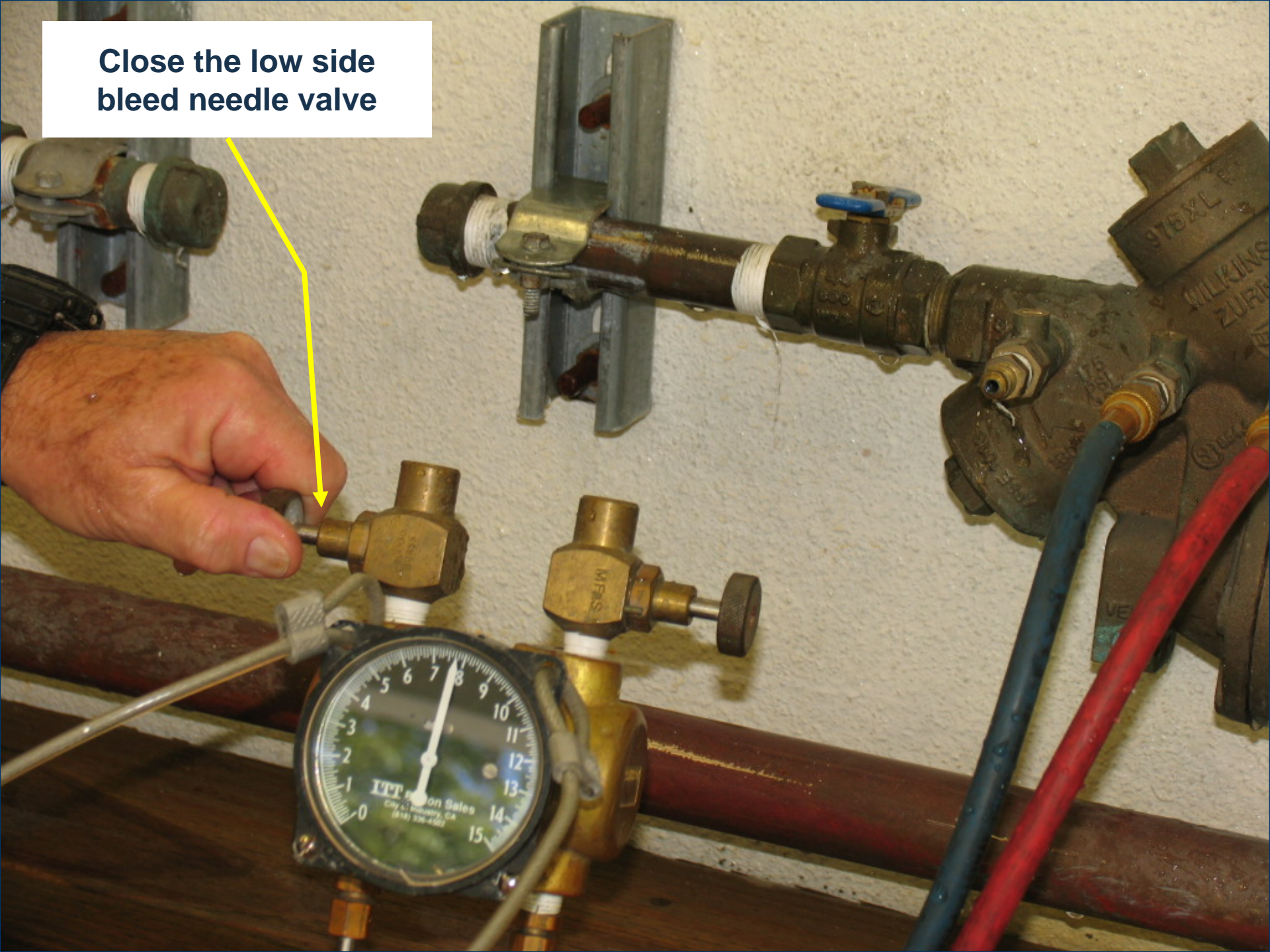
Remember both the high side and low side bleed valves are still flushing with Shutoff Valve #2 off.

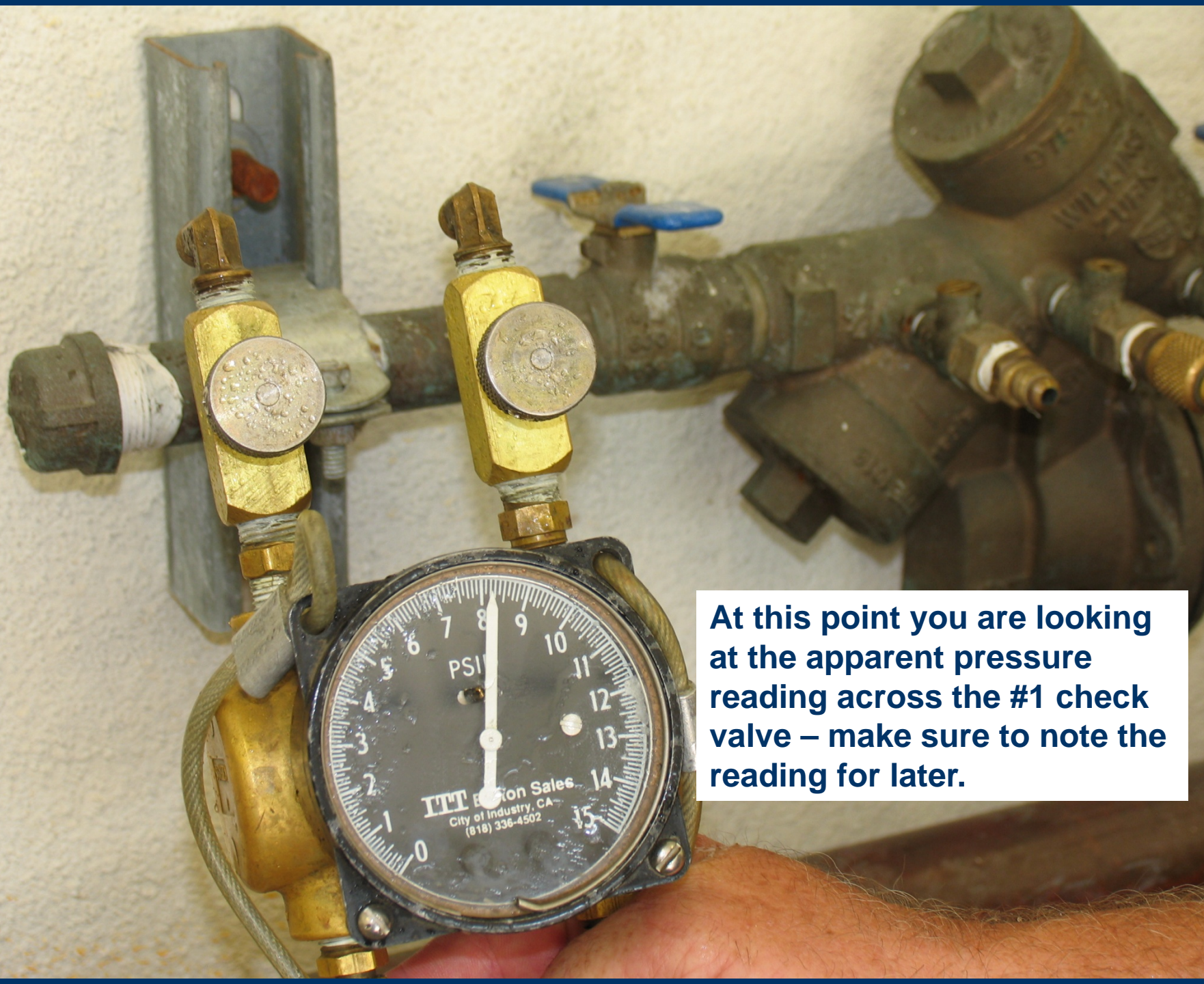


Close the high side bleed needle valve



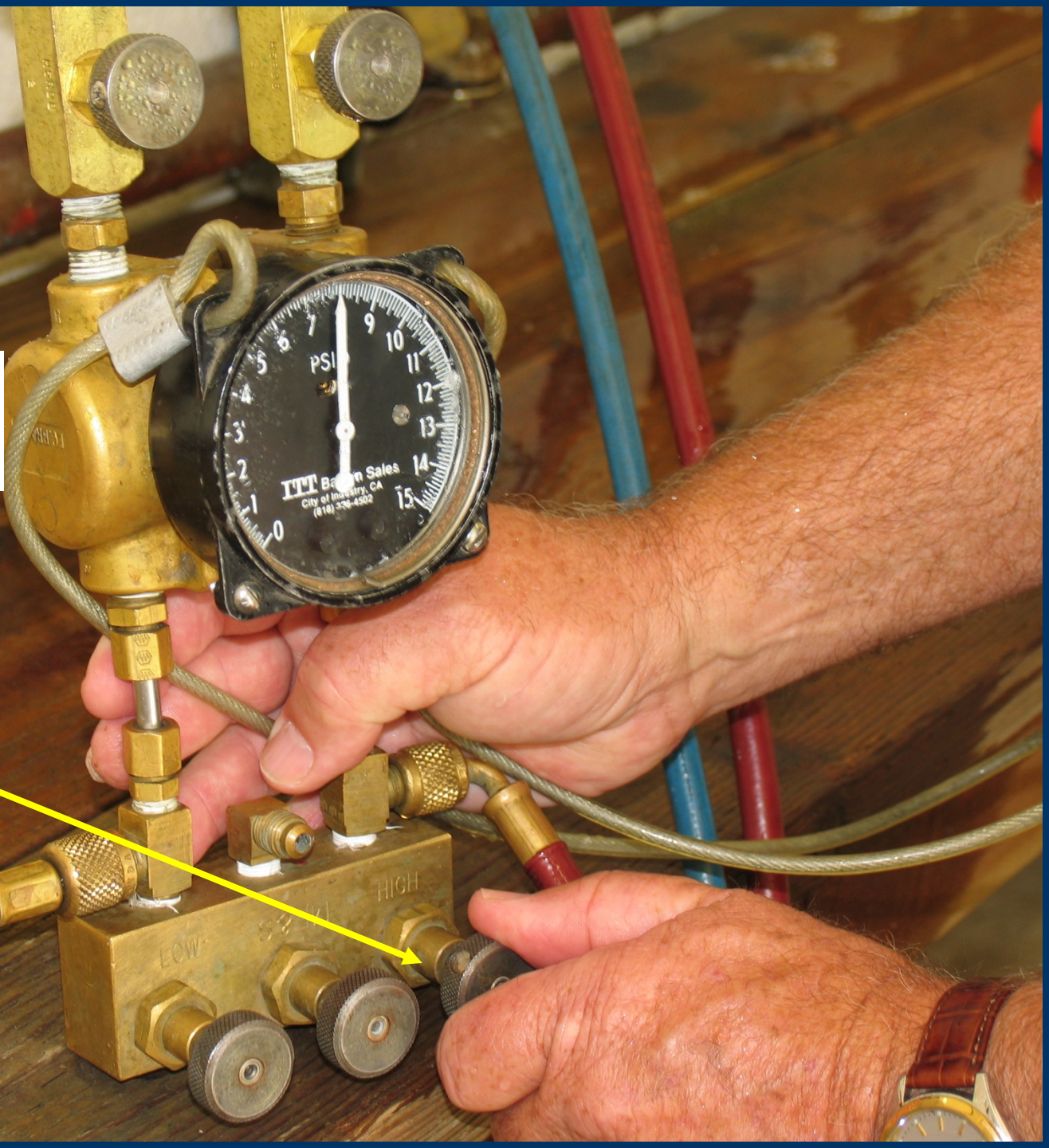
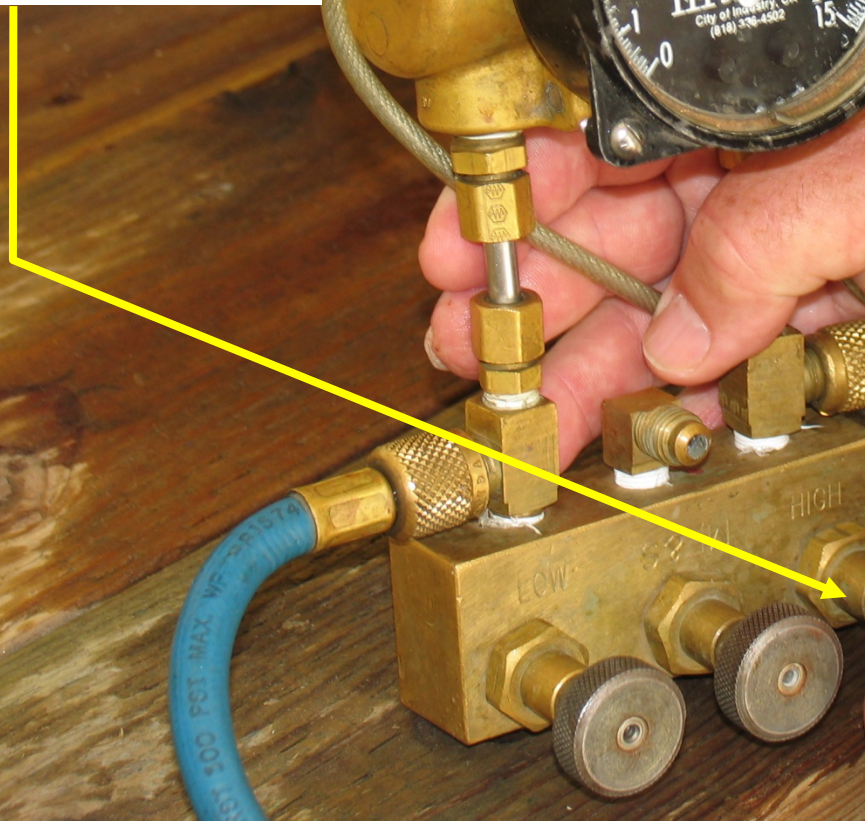
Close the low side bleed needle valve



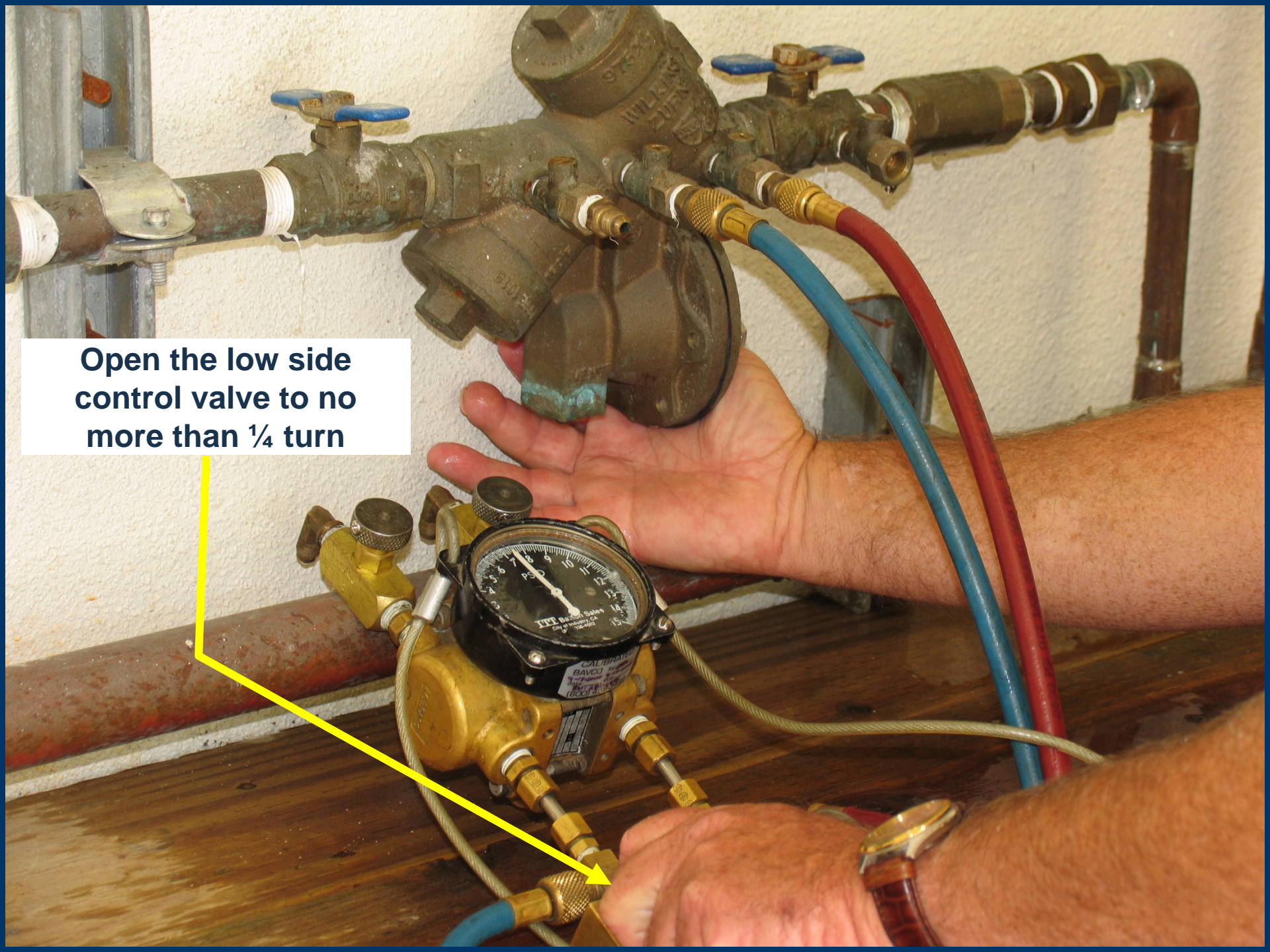


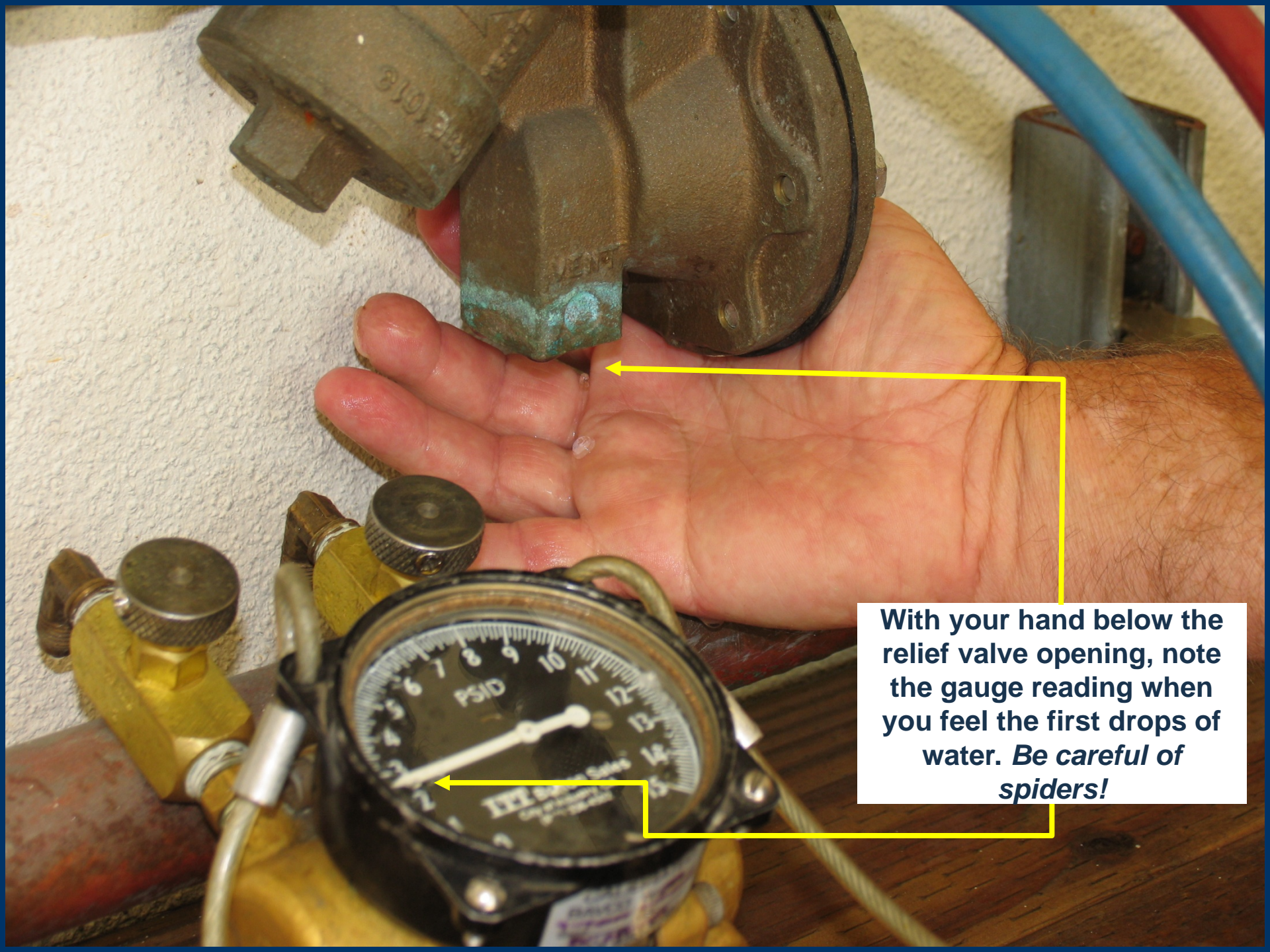
At this point you are looking at the apparent pressure reading across the #1 check valve – make sure to note the reading for later.

Open the high side control needle valve one full turn

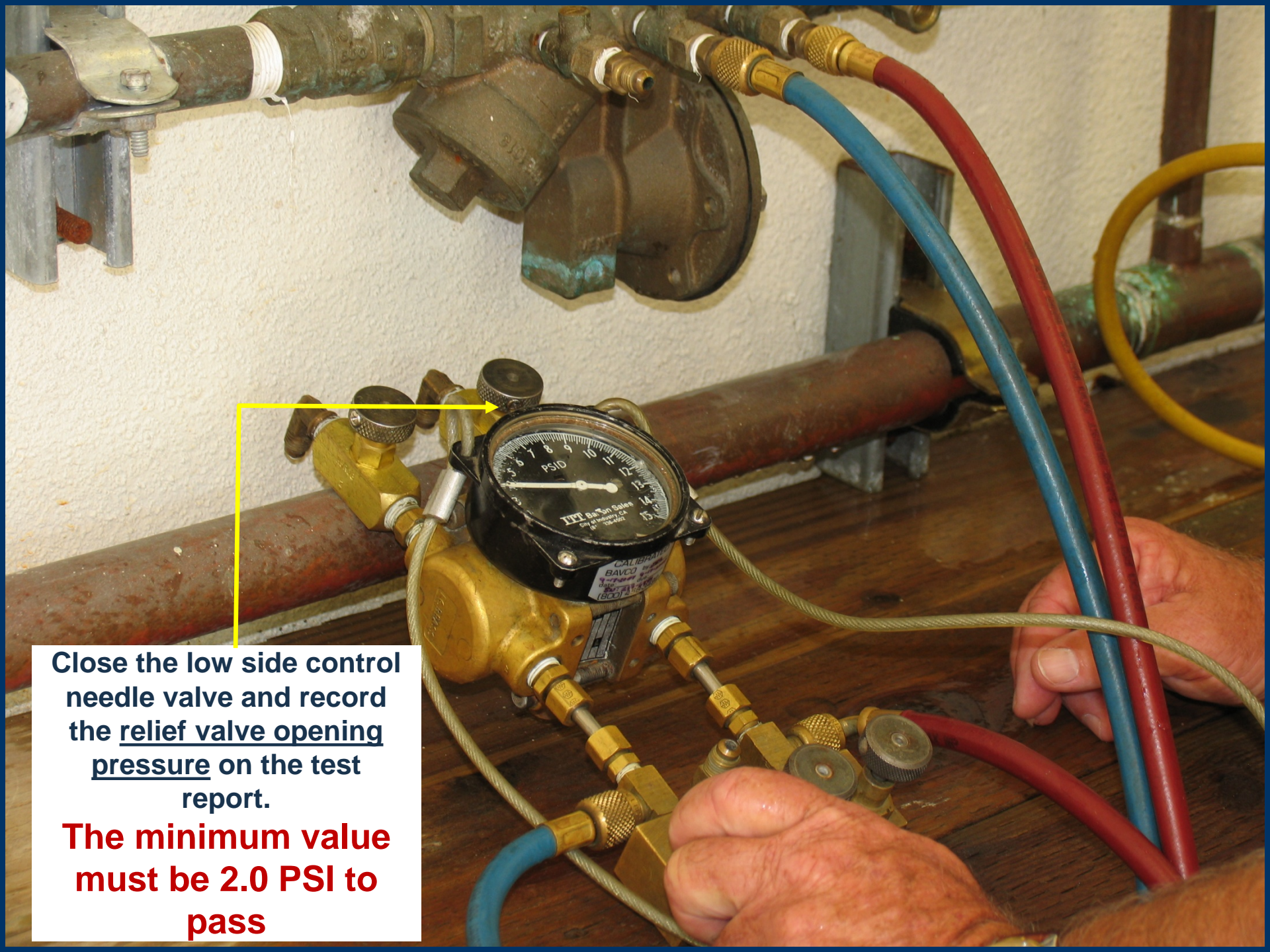


Open the low side control valve to no more than 1/4 turn





With your hand below the relief valve opening, note the gauge reading when you feel the first drops of water. *Be careful of spiders!*



Close the low side control needle valve and record the relief valve opening pressure on the test report.

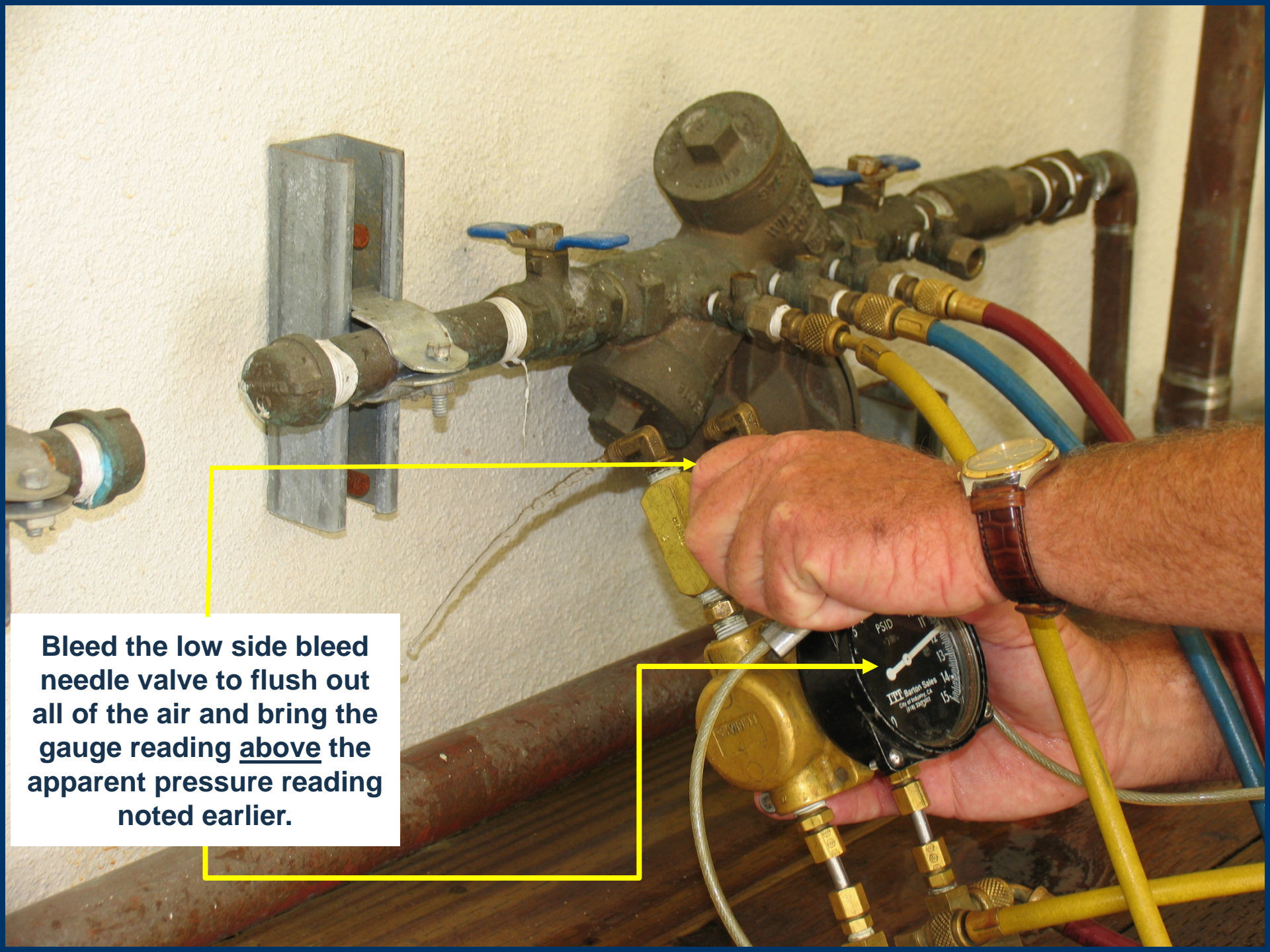
The minimum value must be 2.0 PSI to pass



Check the tightness of check valve #2, open the bypass control needle valve to bleed, then close it.



**Attach the bypass hose to
test cock #4 and open test
cock #4**



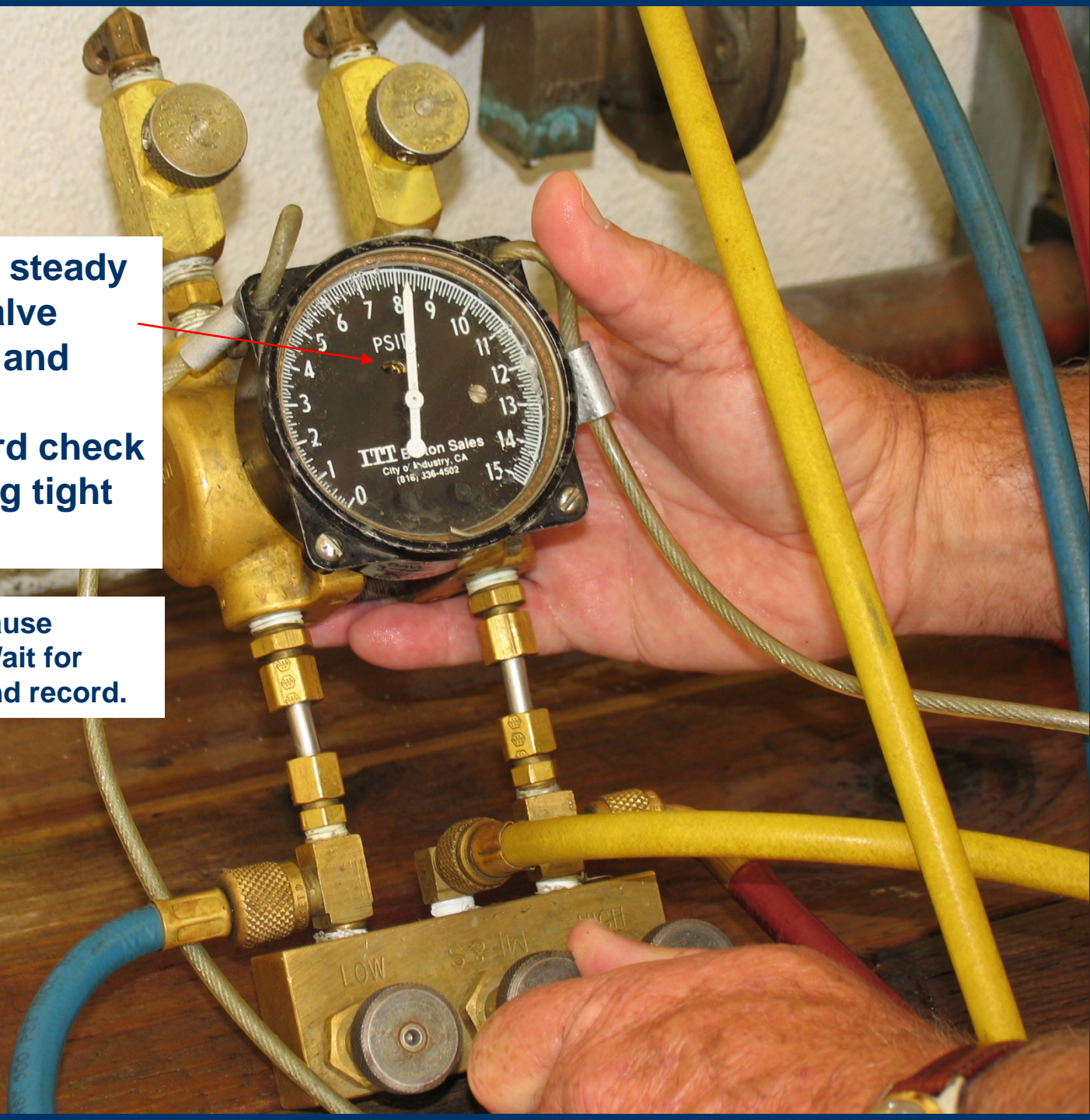
Bleed the low side bleed needle valve to flush out all of the air and bring the gauge reading above the apparent pressure reading noted earlier.

**Open the Bypass control
needle valve and allow
the gauge to settle.**



If the gauge holds steady above the relief valve opening pressure and relief valve not discharging, record check valve #2 as holding tight on the test report.

Water in the line can cause pressure fluctuation. Wait for pressure to stabilize and record.

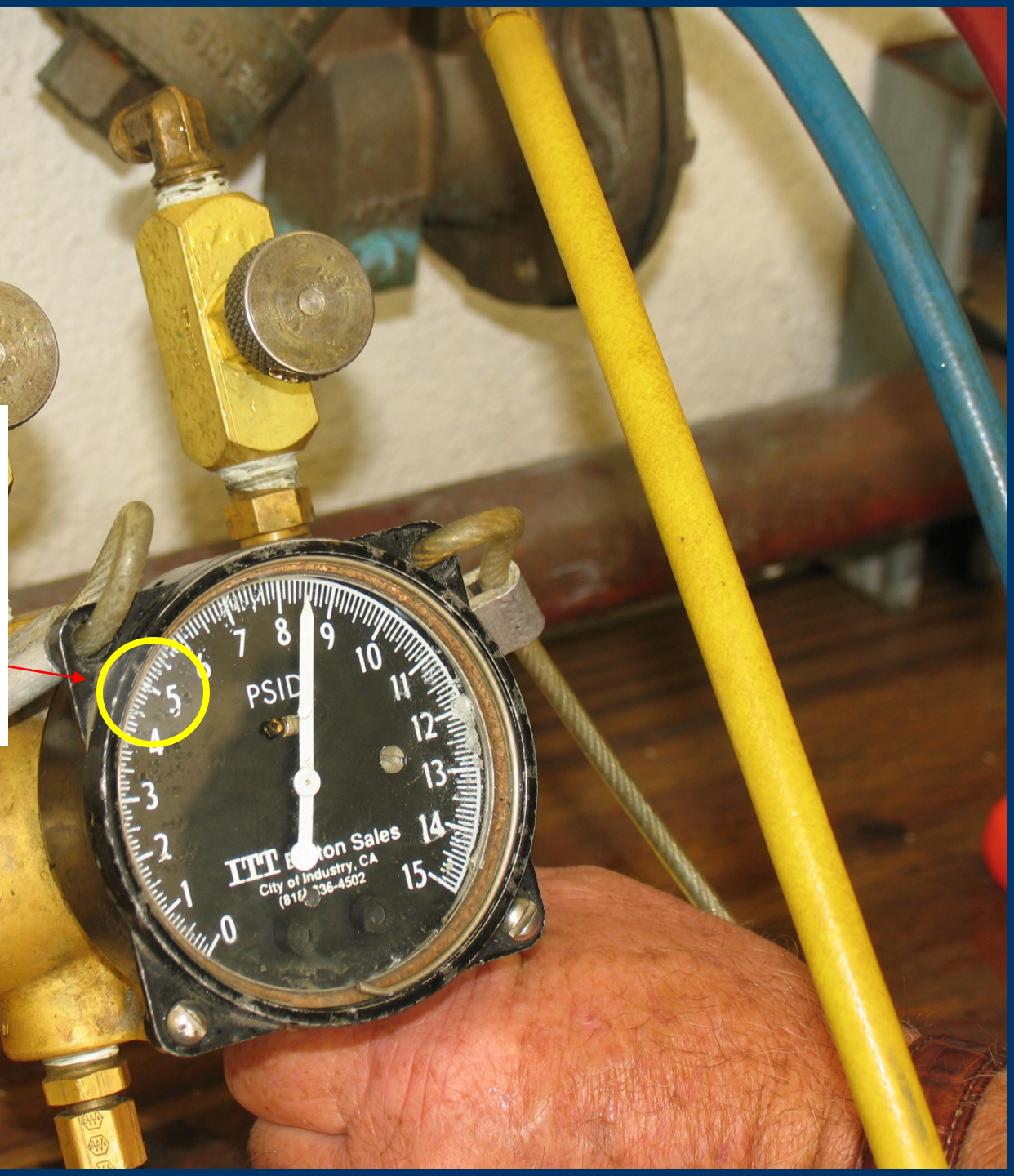


To obtain the actual static pressure reading across the #1 check valve, first bleed the low side bleed needle valve until the gauge reads above the apparent pressure reading and close it.



**Allow the gauge to settle
and record the reading on
the test report form.**


**The minimum value
must be 5.0 PSI to
pass.**



Backflow Testing Review: RP

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
4. Submit the form to the water purveyor AND OCHCA



Please return to appropriate water purveyor
AND The County of Orange at:
OCBackflowTests@ochca.com or
714-4336481 (fax) or
1241 E. Dyer Rd. #120
Santa Ana, CA 92705

BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

OWNER: _____ ADDRESS: _____
 MANUFACTURE: _____ MODEL: _____ SIZE: _____ TYPE: _____
 SERIAL NUMBER: _____ LOCATION: _____

	REDUCED PRESSURE PRINCIPLE ASSEMBLY			LINE PRESSURE
	DOUBLE CHECK VALVE ASSEMBLY		RELIEF VALVE	PVB/SVB
Initial Test	CHECK VALVE #1	CHECK VALVE #2	RELIEF VALVE	PVB/SVB
	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	OPENED AT _____ PSID DID NOT OPEN <input type="checkbox"/>	AIR INLET DID NOT OPEN <input type="checkbox"/> AIR INLET FULLY OPEN YES <input type="checkbox"/> NO <input type="checkbox"/>
REPAIRS	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	CHECK VALVE HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/> <input type="checkbox"/> CLEANED <input type="checkbox"/> REPLACED _____ _____
FINAL TEST	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	OPENED AT _____ PSID	AIR INLET OPENED AT FULLY OPEN YES <input type="checkbox"/> CHECK VALVE HELD AT _____ PSID

COMMENTS _____

INITIAL TEST (Signature) _____ Print Name _____ CERT. TEST NO. _____ DATE _____

FINAL TEST (Signature) _____ Print Name _____ CERT. TEST NO. _____ DATE _____

TESTER'S COMPANY NAME _____ TESTER'S PHONE NUMBER _____

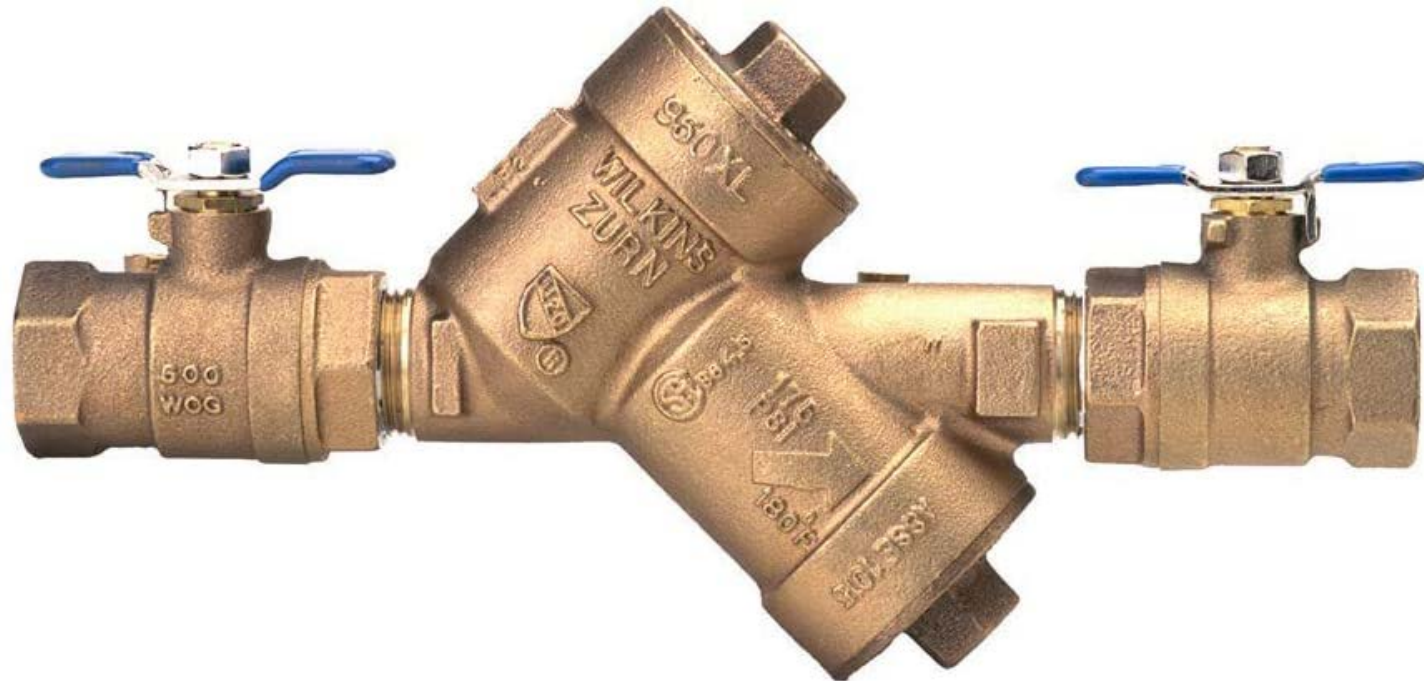
AUGUST 2013

Backflow Testing Review: *RP*

Troubleshooting:

- *Remember to be alert for disk compression and try for the 2nd chance before you indicate that the #1 check is leaking!*

Backflow Testing Review: DC



Backflow Testing Review: DC

Equipment required:

- Approved 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

Backflow Testing Review: *DC*

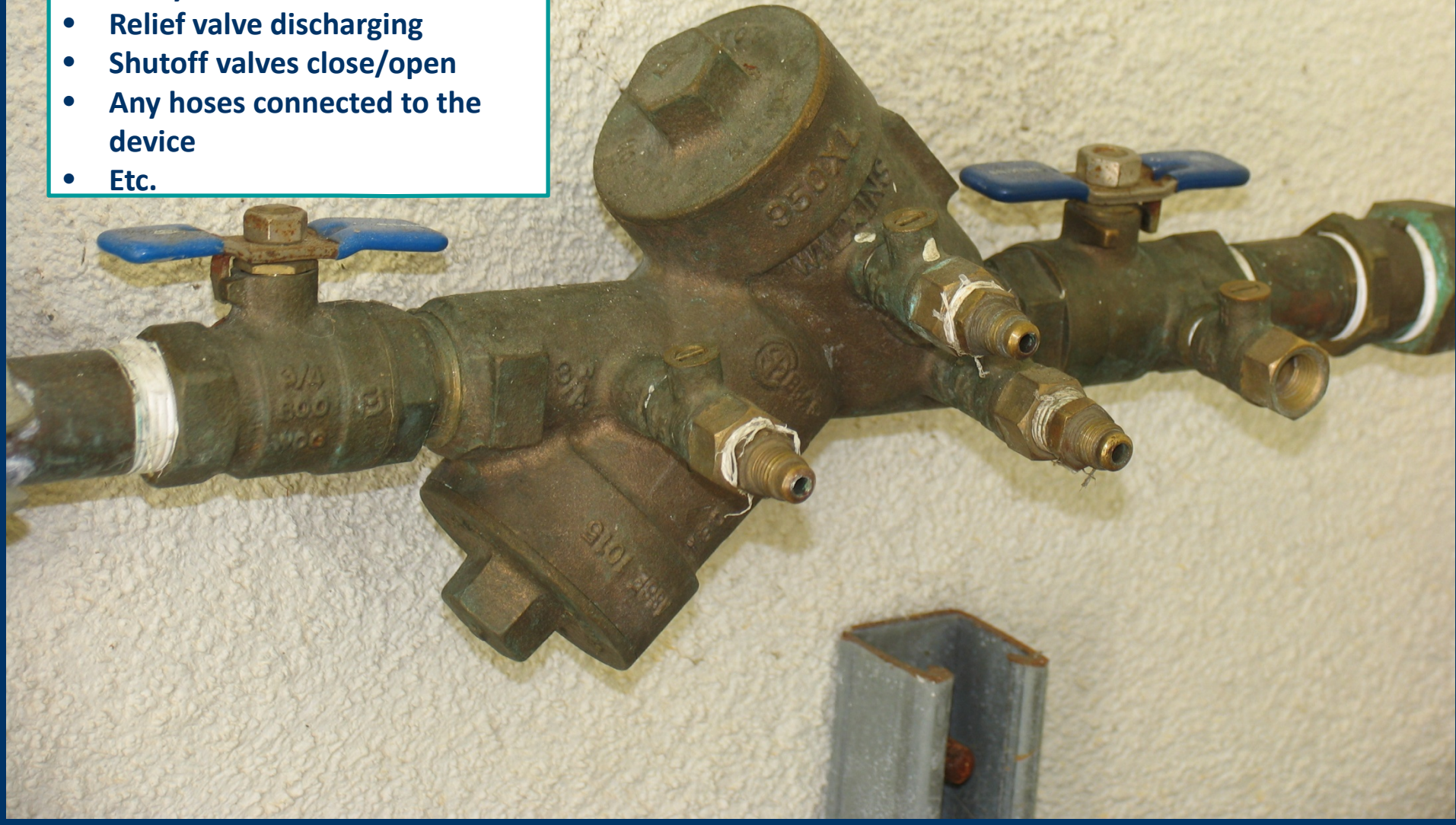
Preliminary Steps

- Notify
- Identify
- Inspect
- Observe

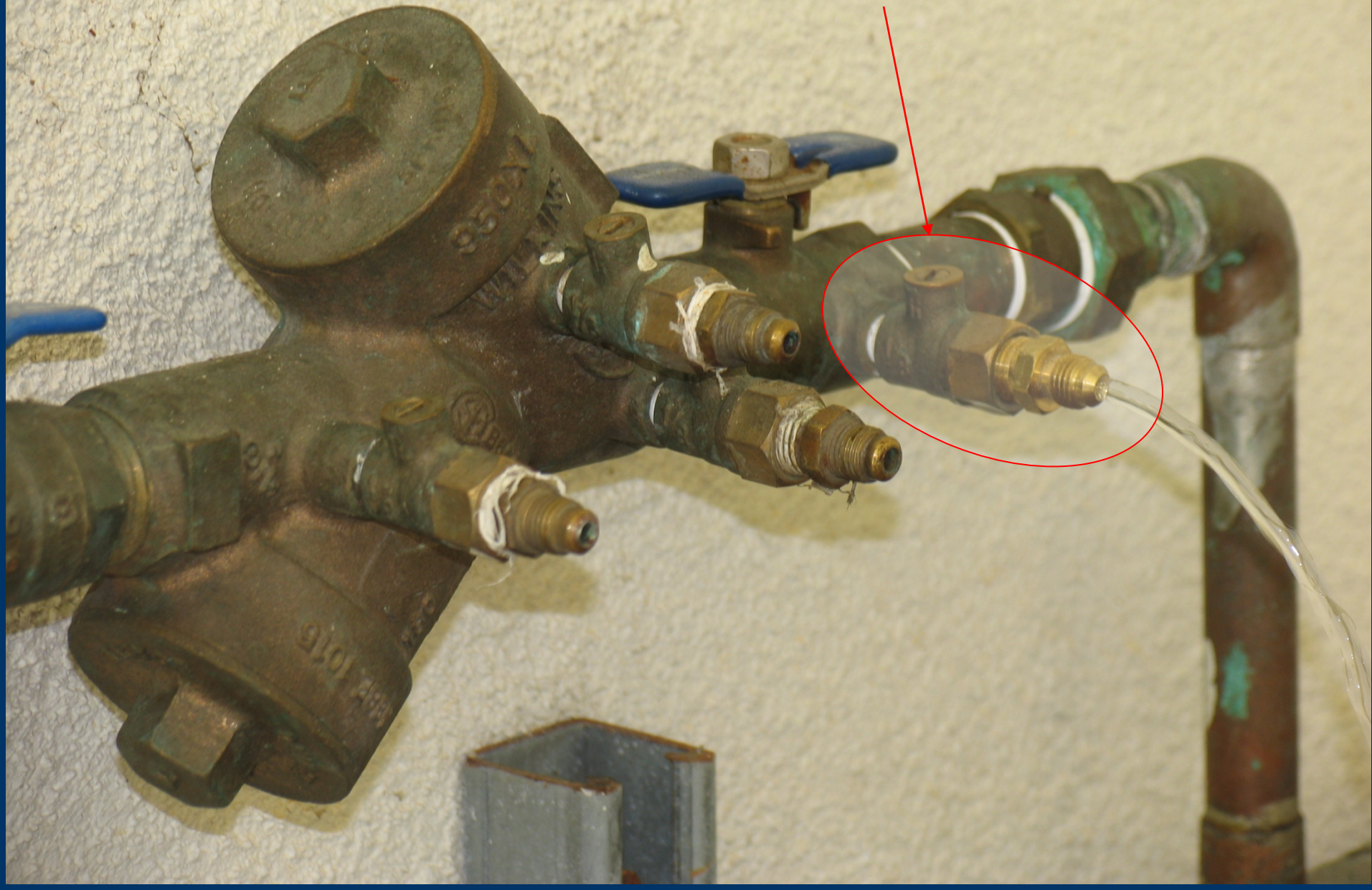
Double Check Backflow Prevention Assembly

Upon arrival, what do you observe?

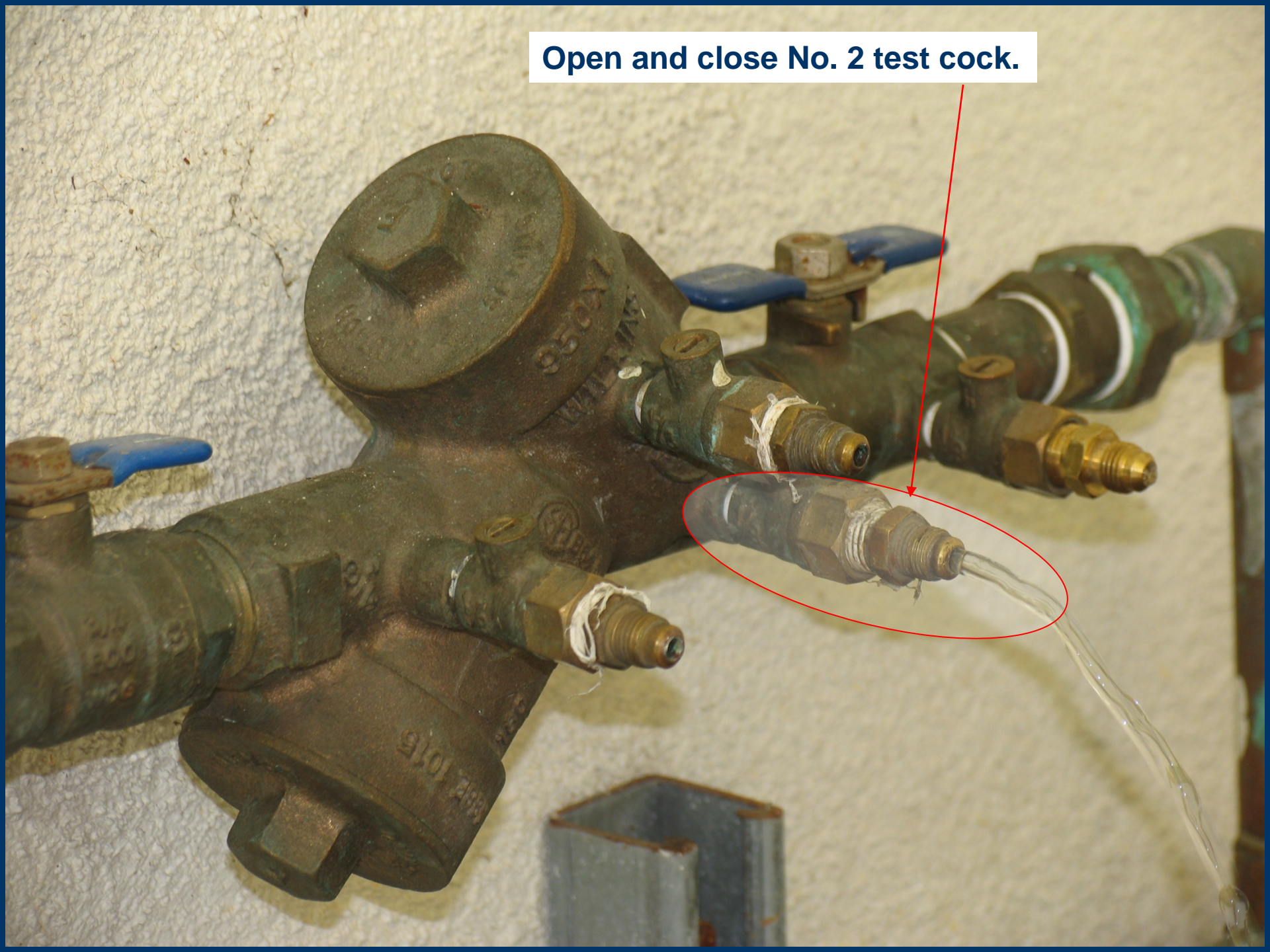
- Direction of flow
- Leaky test cocks
- Relief valve discharging
- Shutoff valves close/open
- Any hoses connected to the device
- Etc.



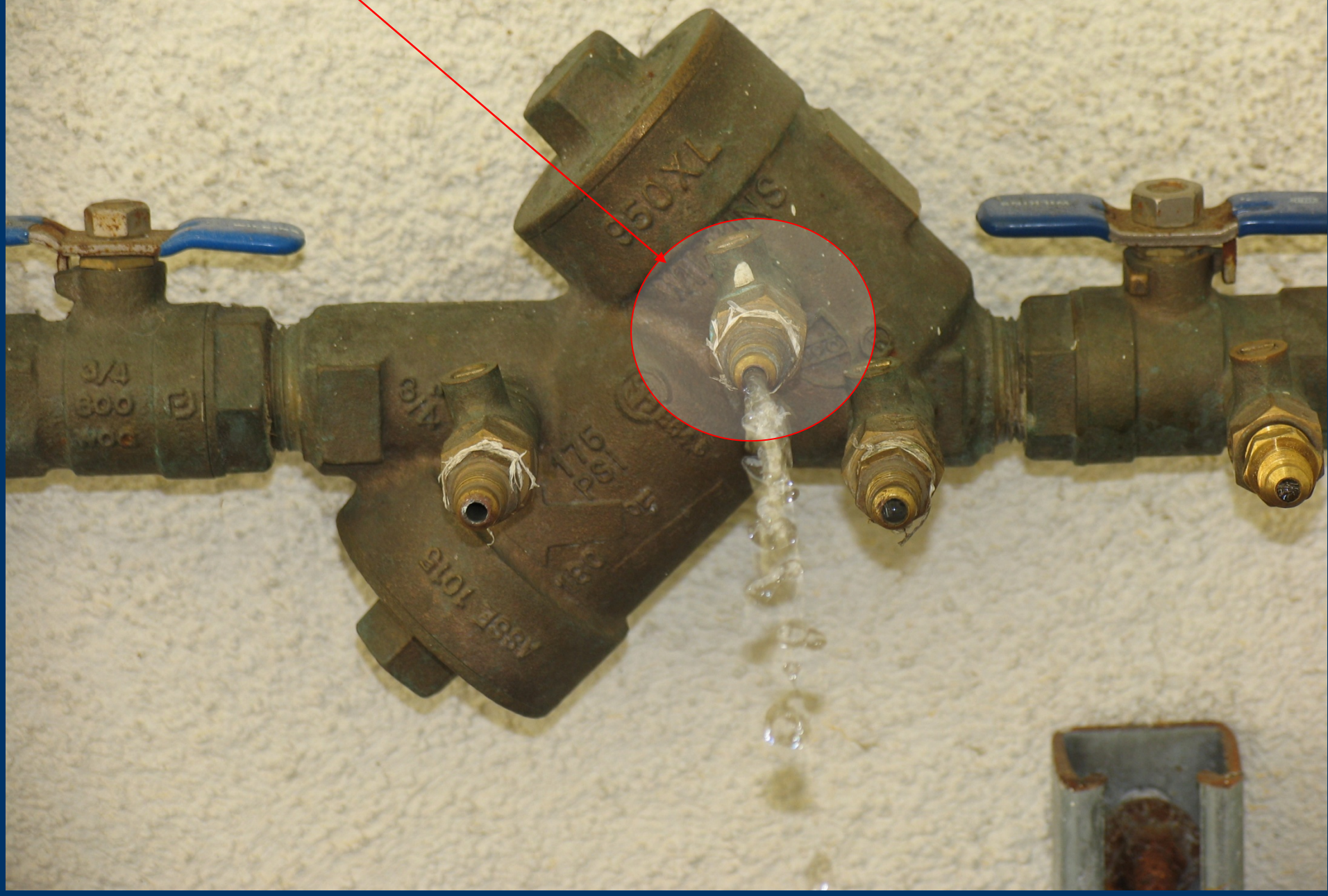
Determine direction of flow and begin with opening and closing No. 1 test cock to flush out all debris.



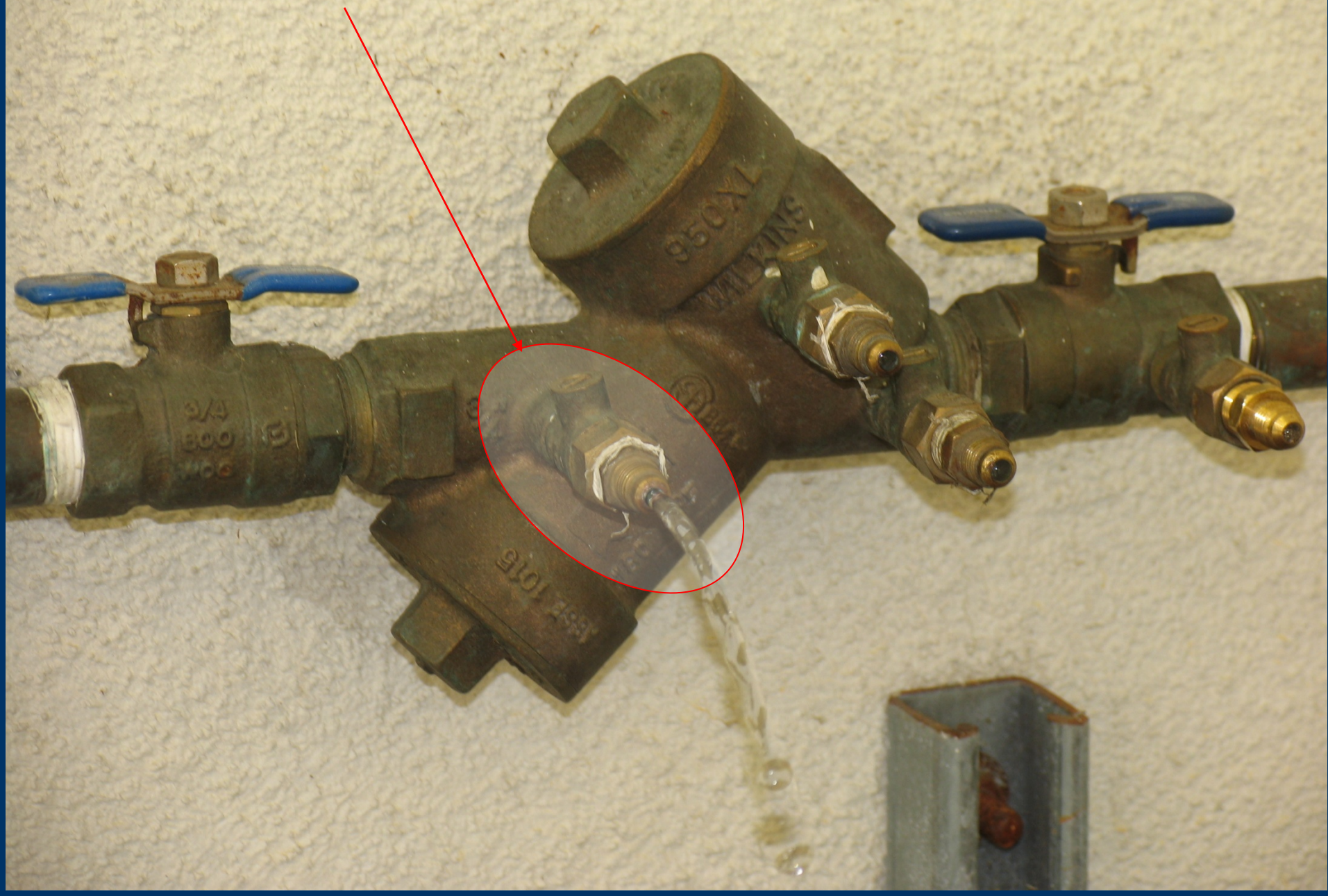
Open and close No. 2 test cock.



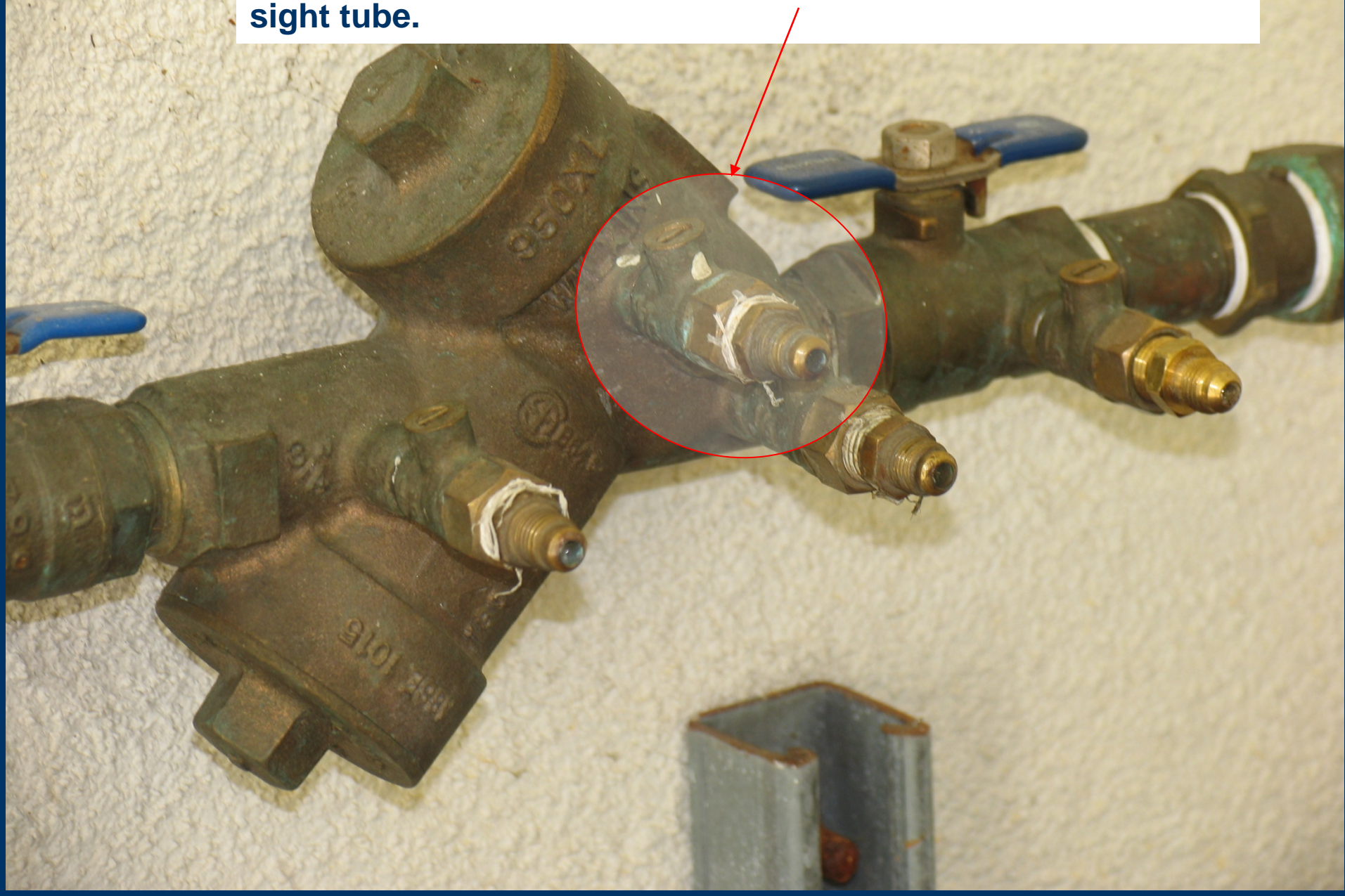
Open and close No. 3 test cock.



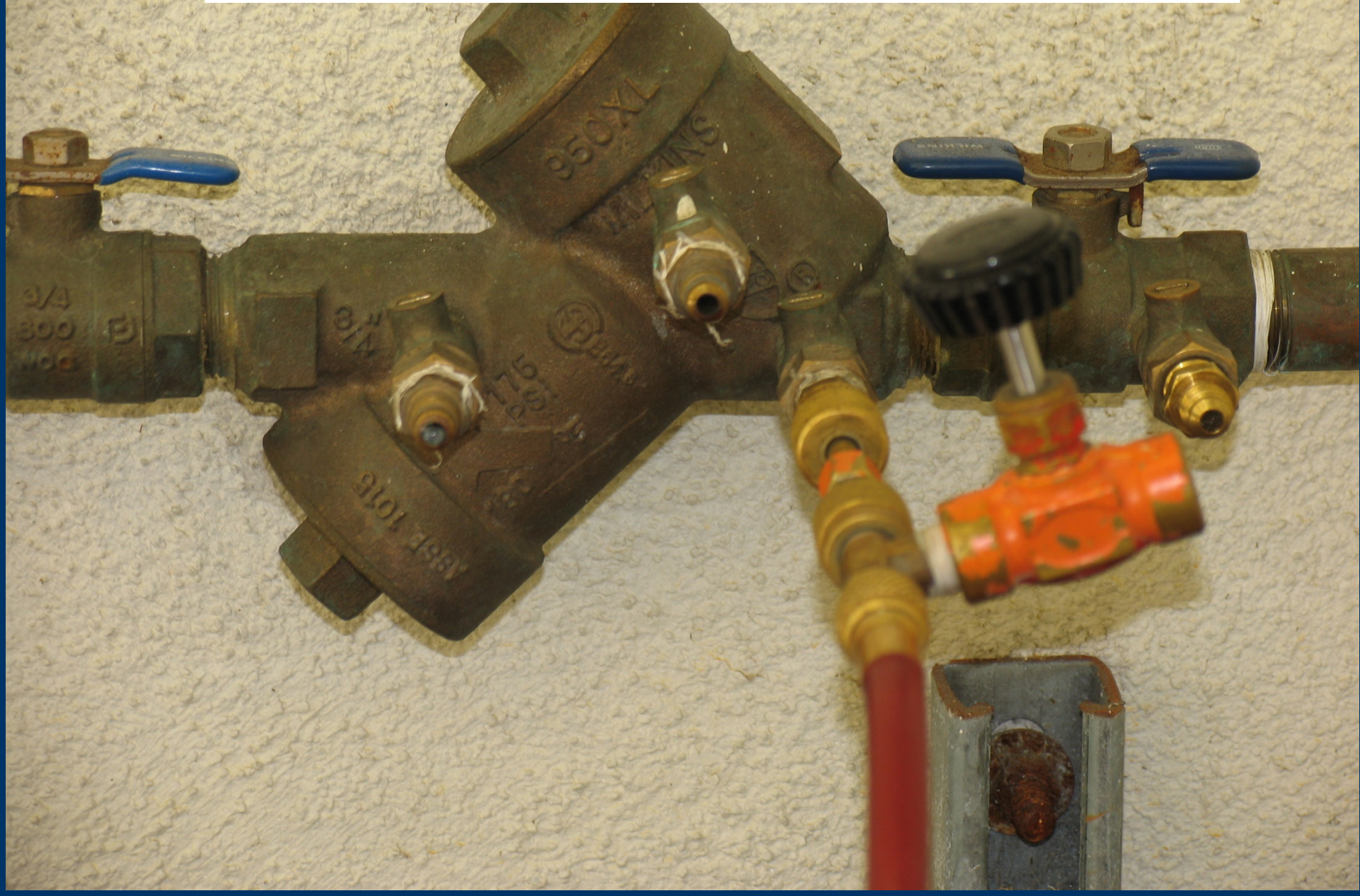
Finish flushing by opening and closing No. 4 test cock.

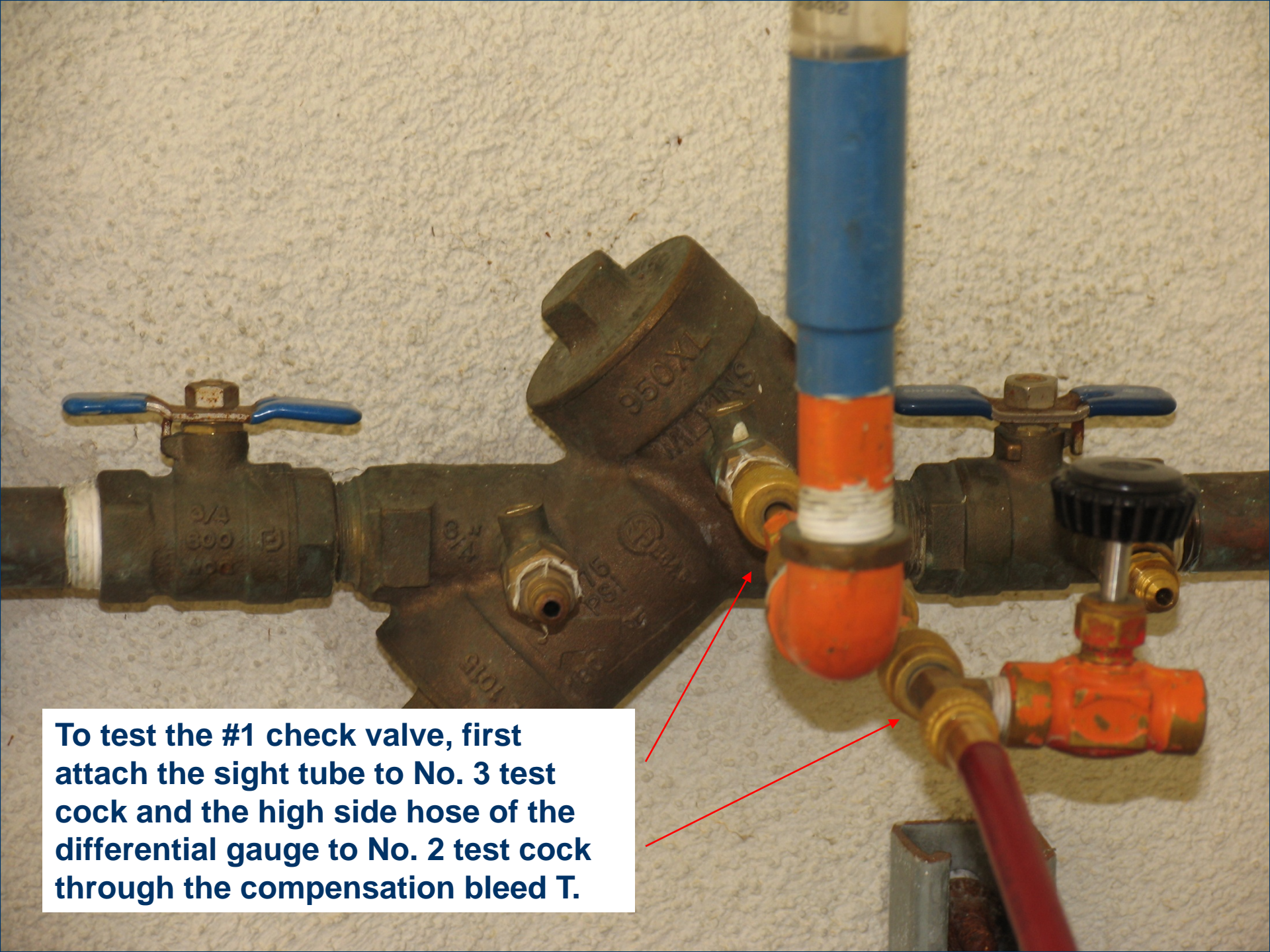


Locate No. 3 test cock and determine if a sight tube is needed. If the test cock is below the check valve body, use a sight tube.

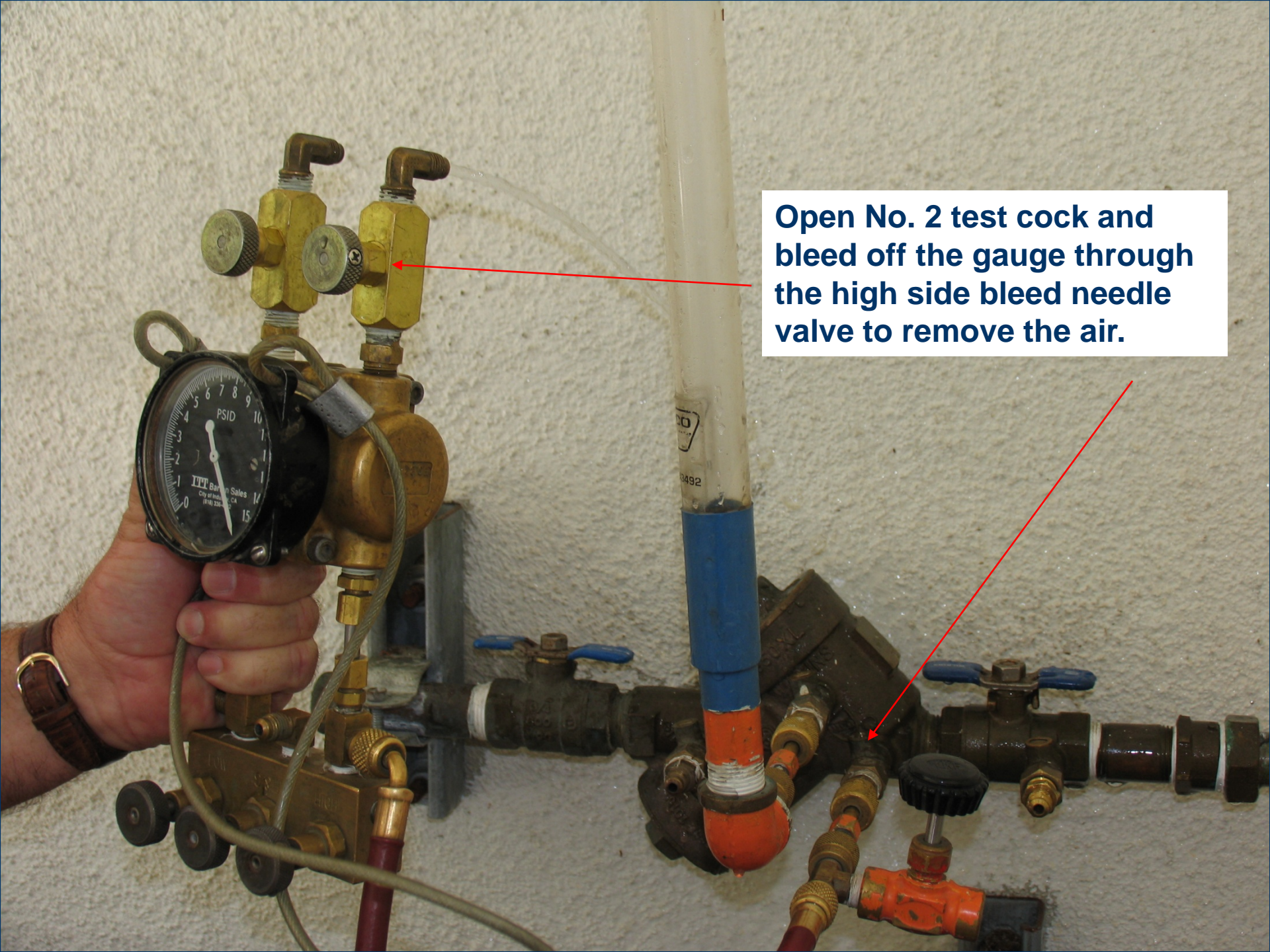


Remember that you must attach the compensation bleed T regardless if the sight tube is required or not.





To test the #1 check valve, first attach the sight tube to No. 3 test cock and the high side hose of the differential gauge to No. 2 test cock through the compensation bleed T.

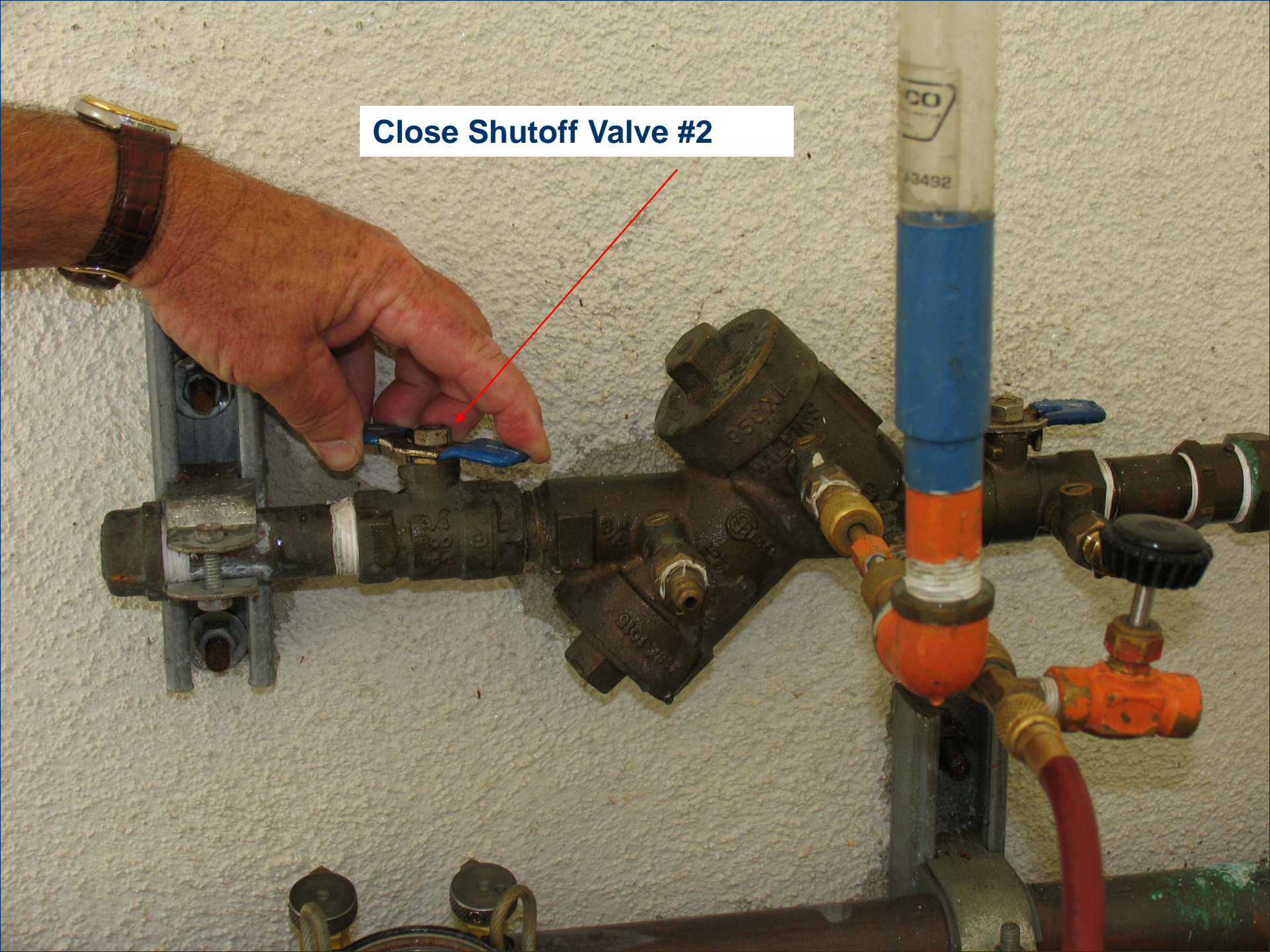


Open No. 2 test cock and bleed off the gauge through the high side bleed needle valve to remove the air.

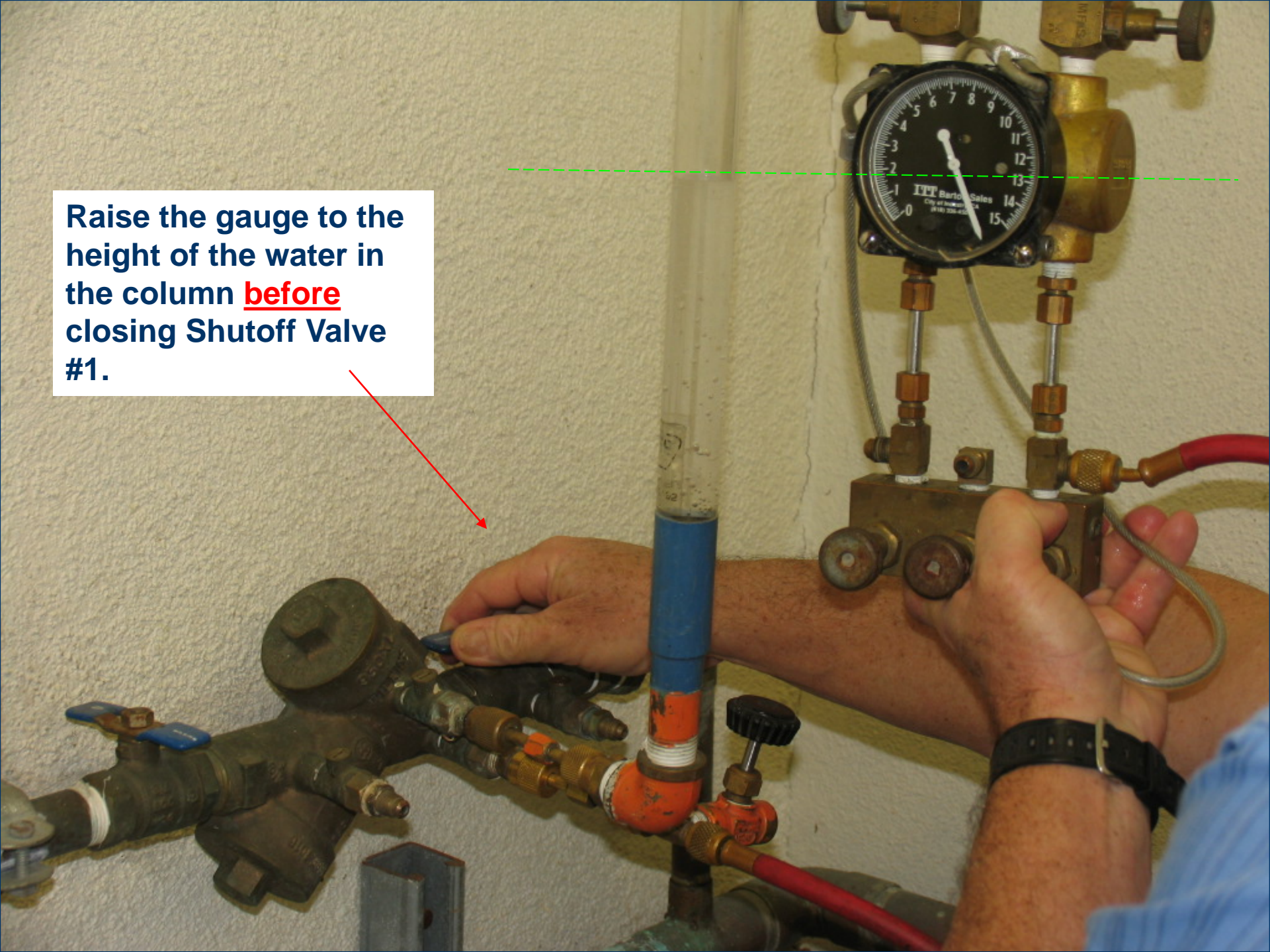
Open No. 3 test cock to fill the sight tube and then close it.



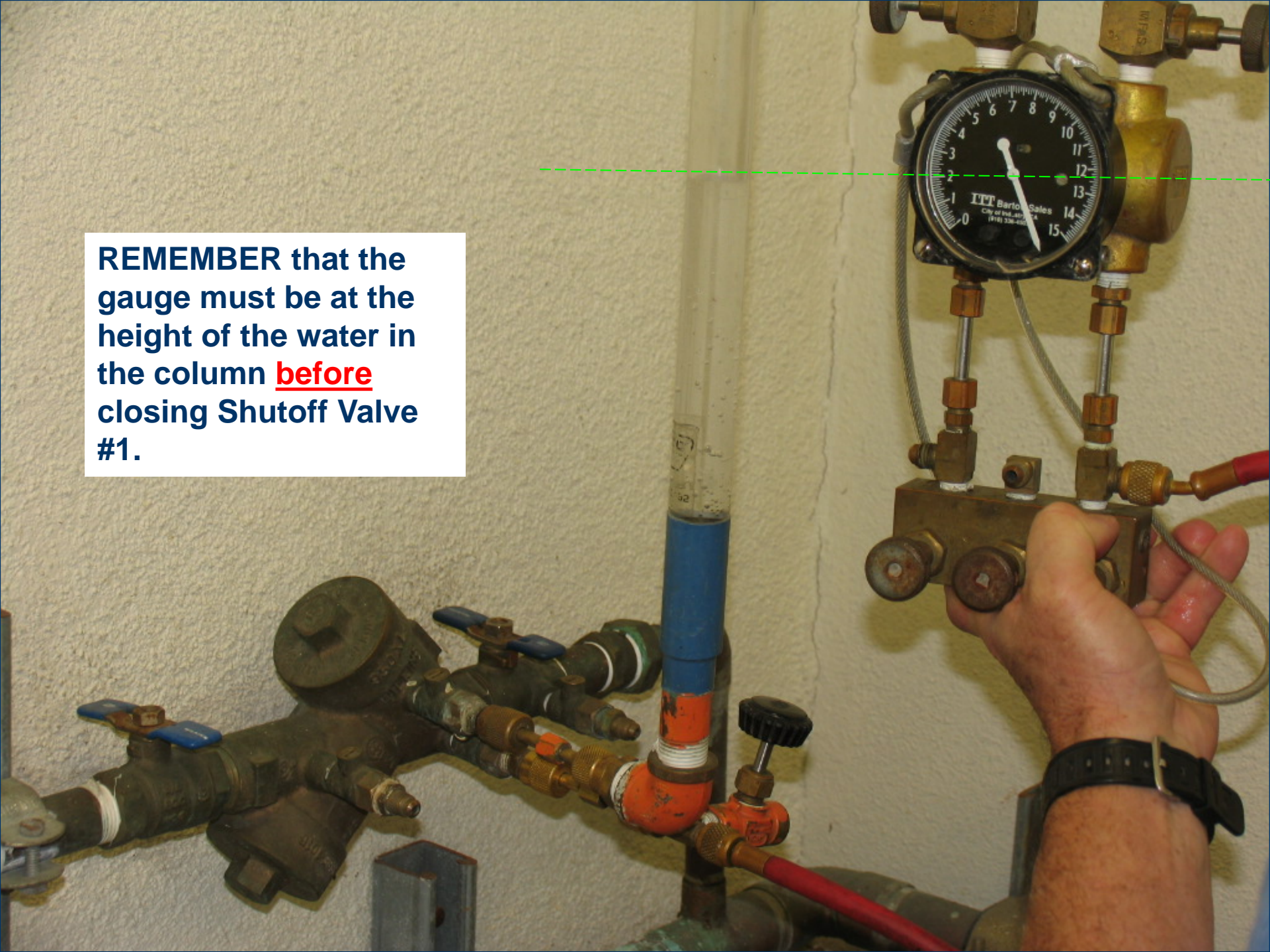
Close Shutoff Valve #2



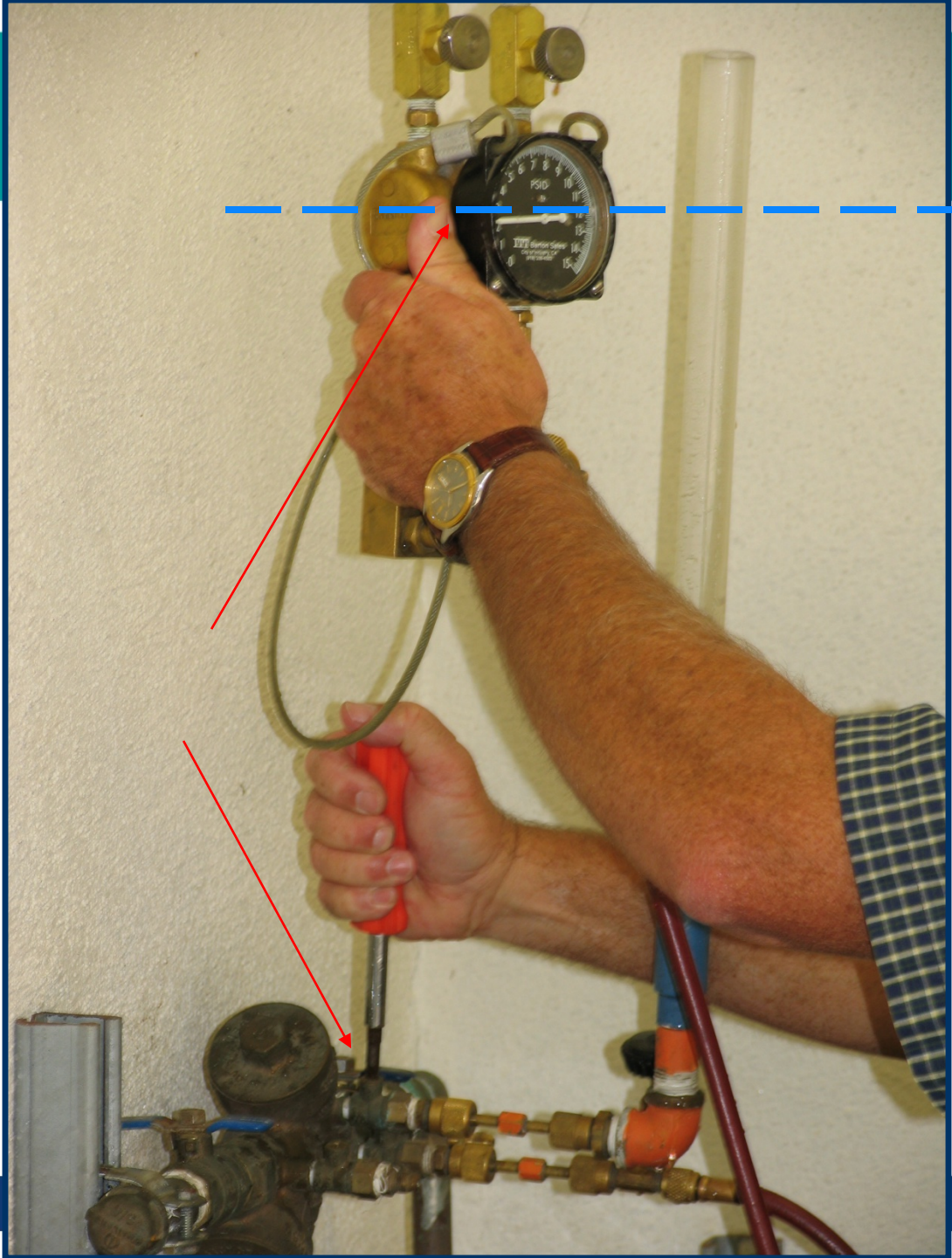
Raise the gauge to the height of the water in the column **before** closing Shutoff Valve #1.



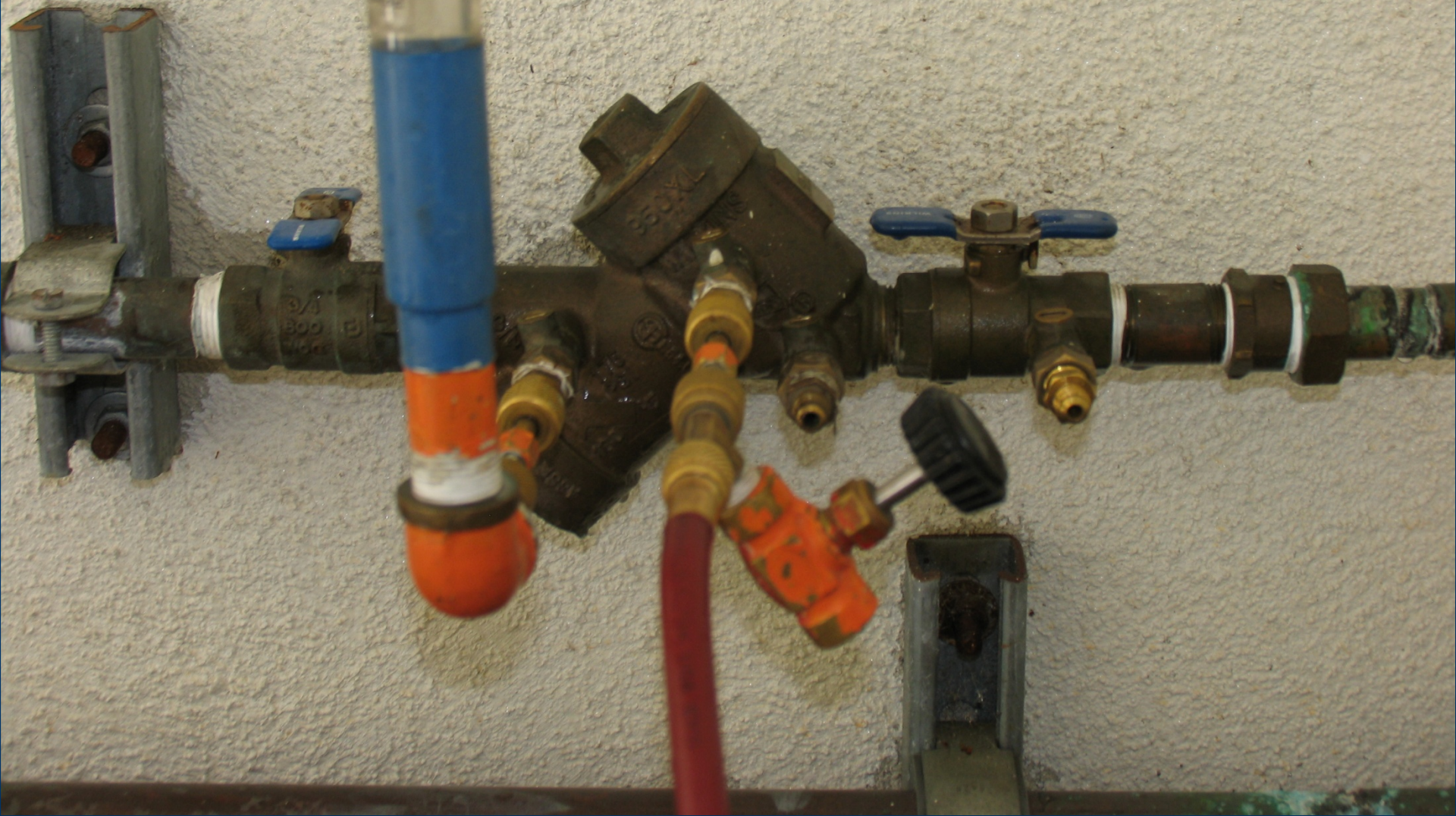
REMEMBER that the gauge must be at the height of the water in the column **before** closing Shutoff Valve #1.



**Making sure
your gauge is at
the highest
point of water,
open No. 3 test
cock and
record the
gauge reading
after it settles.
The check valve
must hold at
1.0 PSI or
greater to pass.**



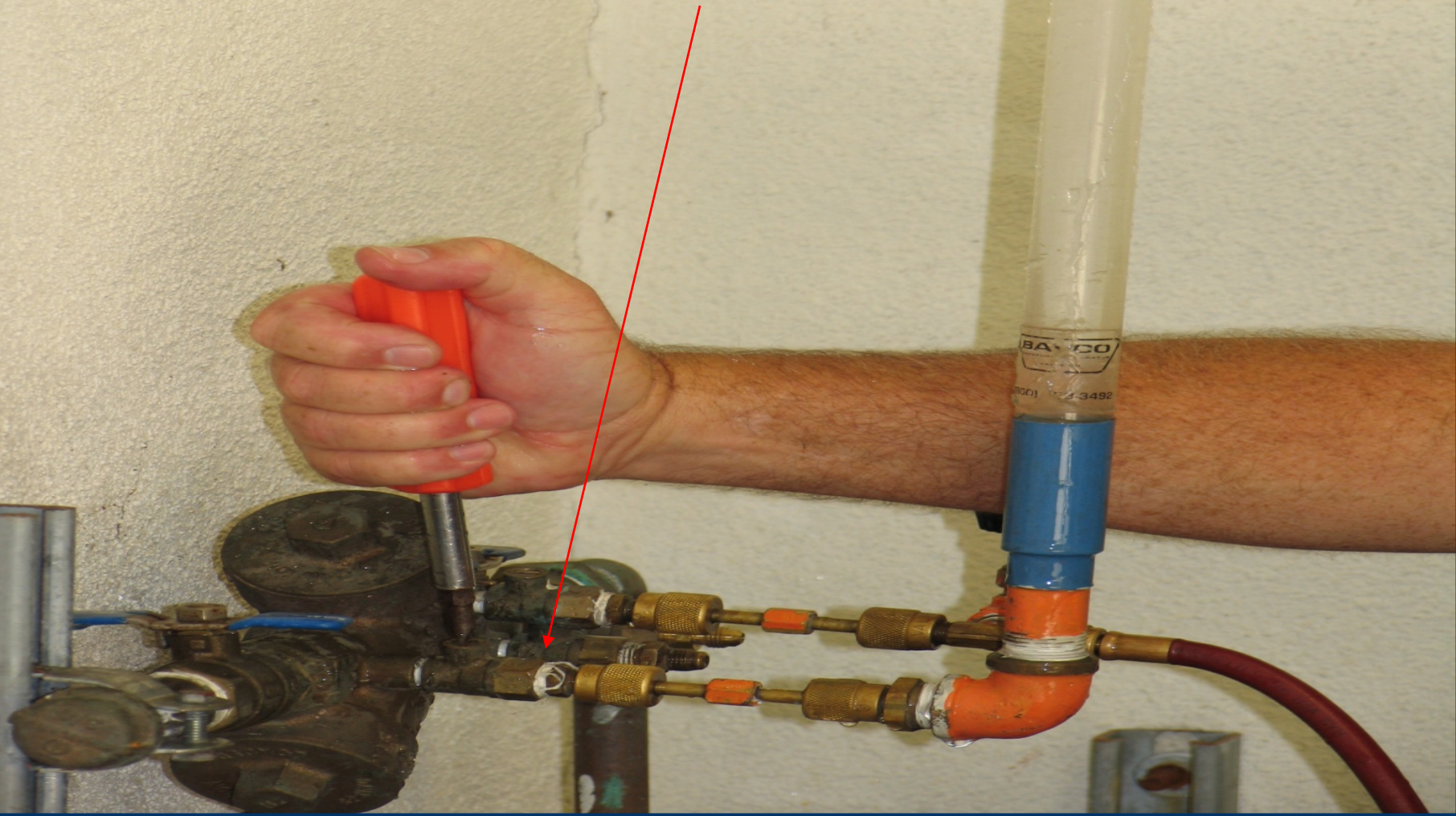
Close No. 2 and No. 3 test cocks, open Shutoff Valve #1 and move your test setup over so that the sight tube is on No. 4 test cock and the high side hose and compensation bleed T are on No. 3 test cock.



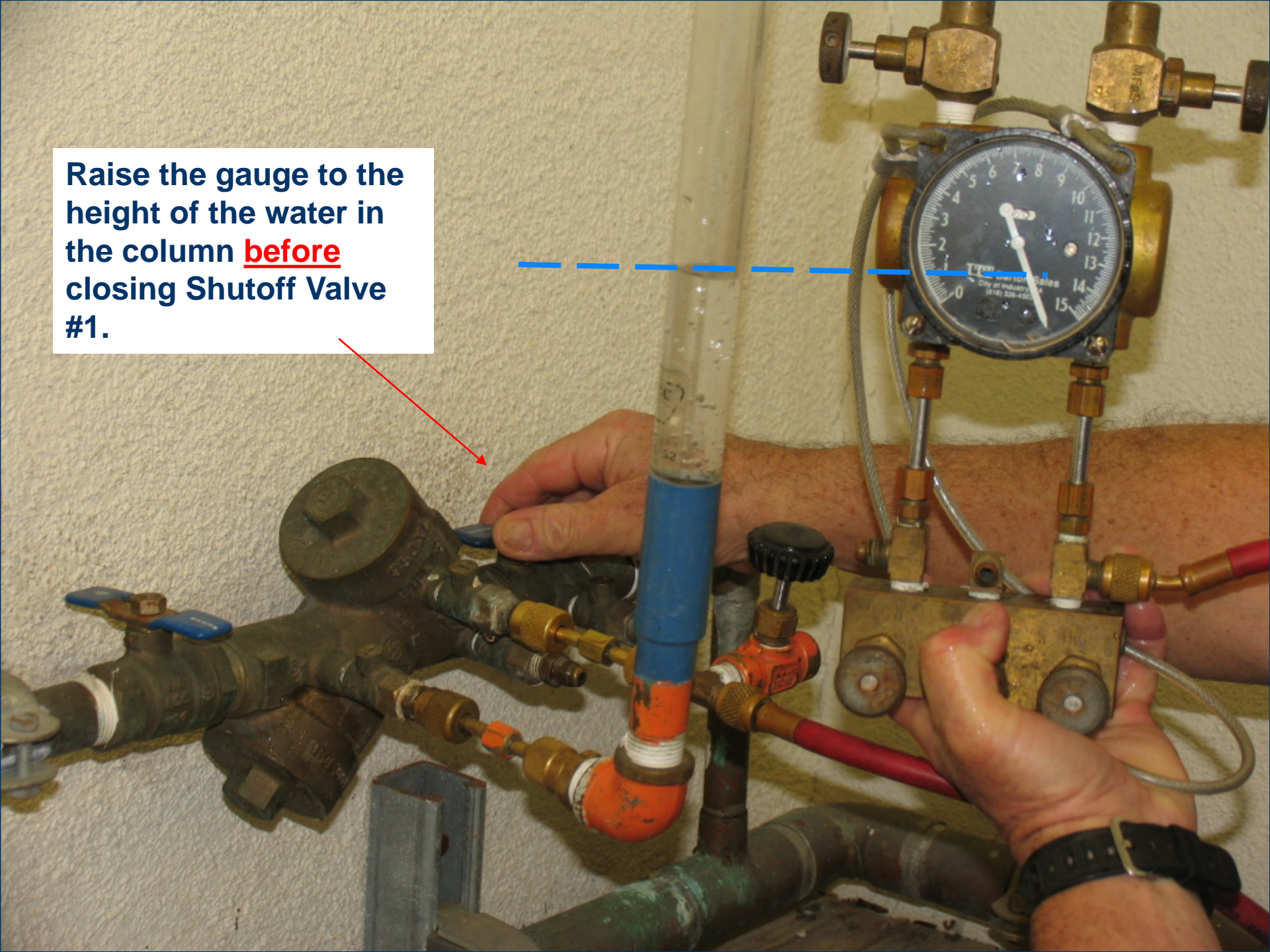
Open the No. 3 test cock and bleed water through the high side bleed needle valve.



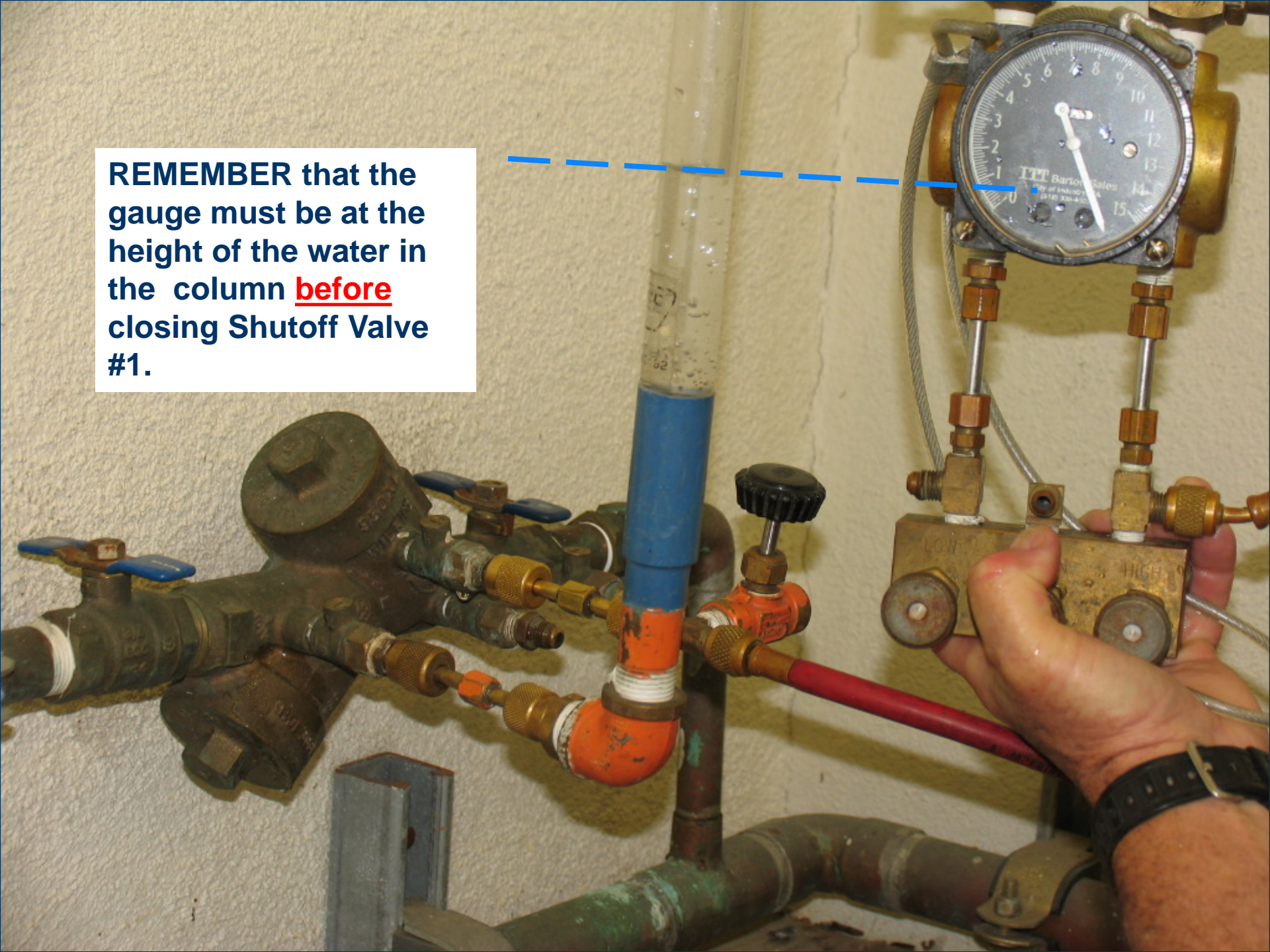
Open No. 4 test cock to fill the sight tube and then close it.



Raise the gauge to the height of the water in the column **before** closing Shutoff Valve #1.



REMEMBER that the gauge must be at the height of the water in the column **before** closing Shutoff Valve #1.




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.



Backflow Testing Review: DC

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
4. Submit the form to the water purveyor AND OCHCA



Please return to appropriate water purveyor
AND The County of Orange at:
OCBackflowTests@ochca.com or
714-4336481 (fax) or
1241 E. Dyer Rd. #120
Santa Ana, CA 92705

BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

OWNER: _____ ADDRESS: _____
 MANUFACTURE: _____ MODEL: _____ SIZE: _____ TYPE: _____
 SERIAL NUMBER: _____ LOCATION: _____

	REDUCED PRESSURE PRINCIPLE ASSEMBLY			LINE PRESSURE
	DOUBLE CHECK VALVE ASSEMBLY		RELIEF VALVE	PVB/SVB
Initial Test	CHECK VALVE #1	CHECK VALVE #2	RELIEF VALVE	PVB/SVB
	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	OPENED AT _____ PSID DID NOT OPEN <input type="checkbox"/>	AIR INLET DID NOT OPEN <input type="checkbox"/> AIR INLET FULLY OPEN YES <input type="checkbox"/> NO <input type="checkbox"/>
REPAIRS	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	CHECK VALVE HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/> <input type="checkbox"/> CLEANED _____ _____ <input type="checkbox"/> REPLACED _____ _____
FINAL TEST	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	OPENED AT _____ PSID	AIR INLET OPENED AT FULLY OPEN YES <input type="checkbox"/> CHECK VALVE HELD AT _____ PSID

COMMENTS _____

INITIAL TEST (Signature) _____ Print Name _____ CERT. TEST NO. _____ DATE _____

FINAL TEST (Signature) _____ Print Name _____ CERT. TEST NO. _____ DATE _____

TESTER'S COMPANY NAME _____ TESTER'S PHONE NUMBER _____

AUGUST 2013

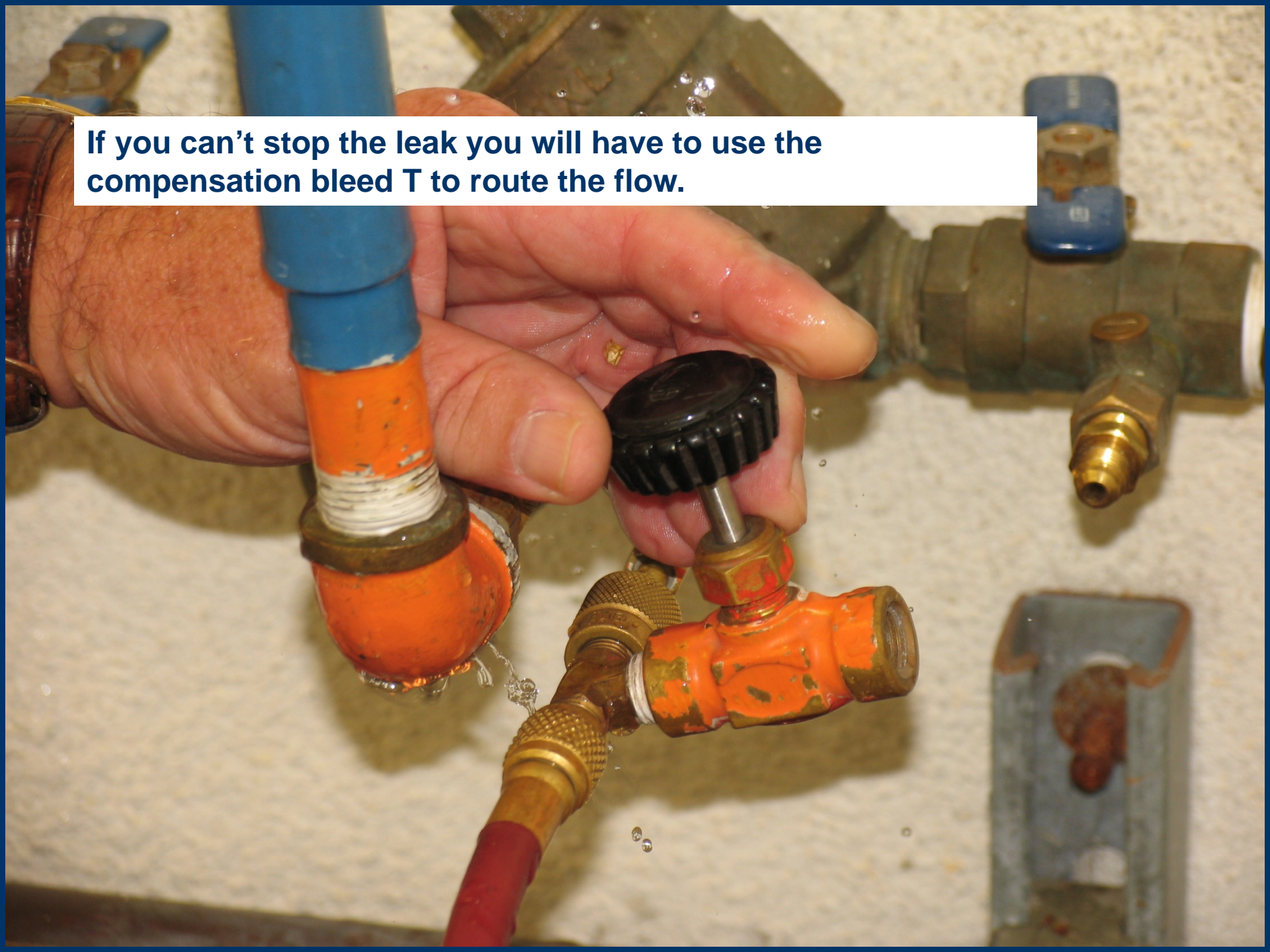
Backflow Testing Review: *DC*

Trouble Shooting the DC

When testing check valve #1, if water continues to flow over the tube then you probably have a leaking #1 shutoff valve. You can try to exercise the valve to see if it will seat and seal.



If you can't stop the leak you will have to use the compensation bleed T to route the flow.



The key is to gently adjust the compensation bleed valve so that you get just a slight drip out of the test cock.





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

Backflow Testing Review: *SVB*



Backflow Testing Review: SVB

Equipment required:

- Approved 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: *SVB*

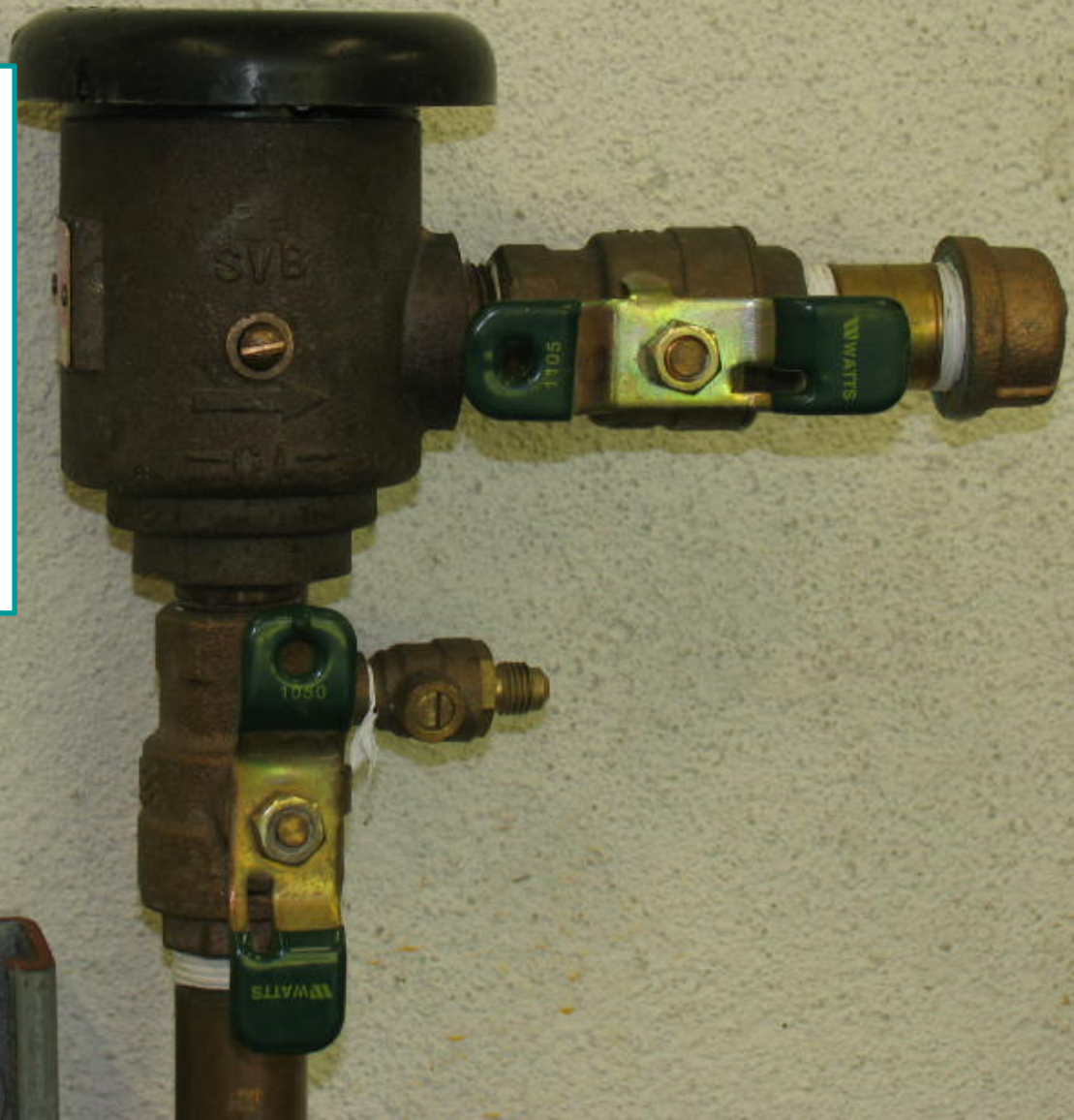
Preliminary Steps

- Notify
- Identify
- Inspect
- Observe

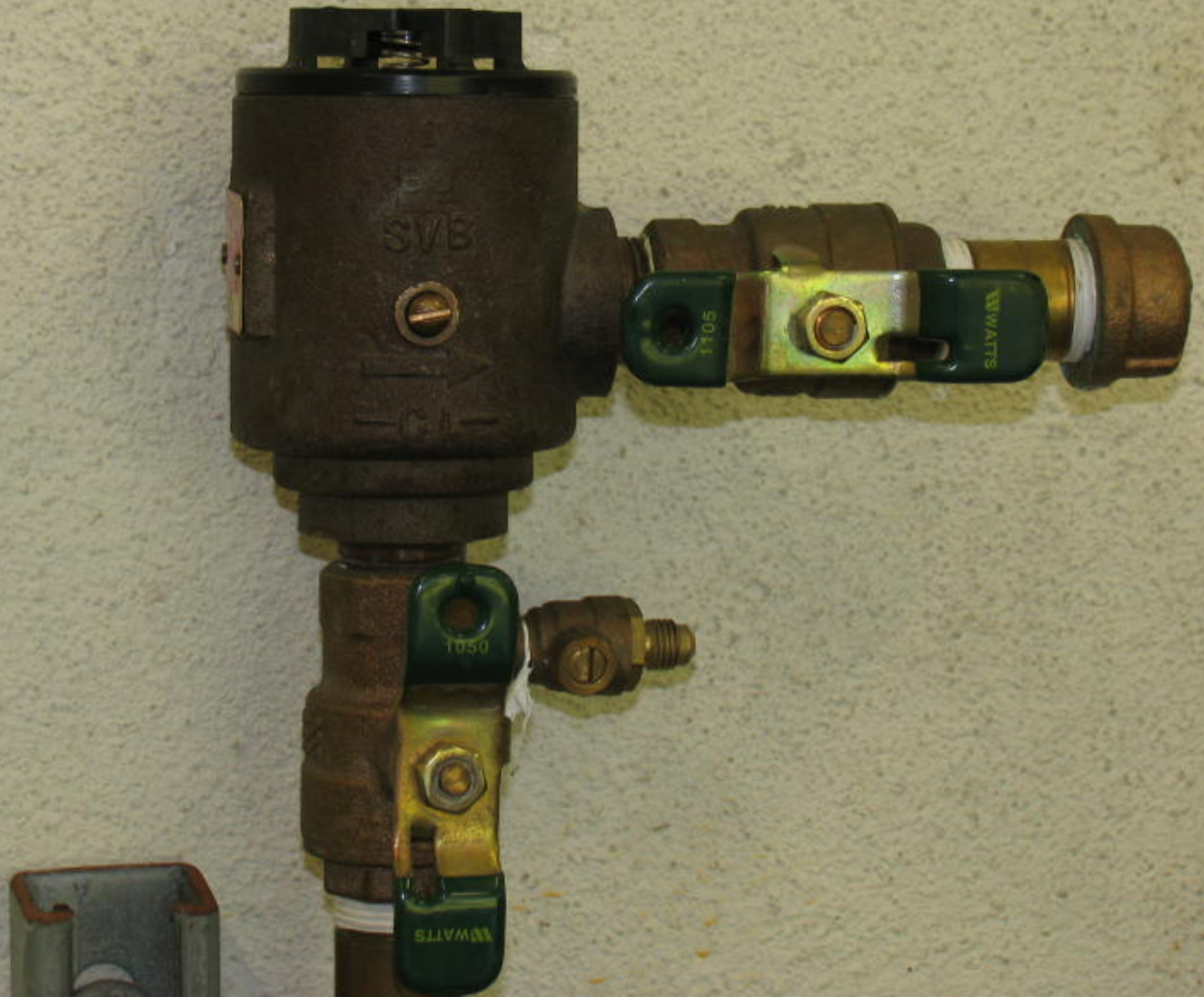
Spill-resistant PVB with the canopy installed.

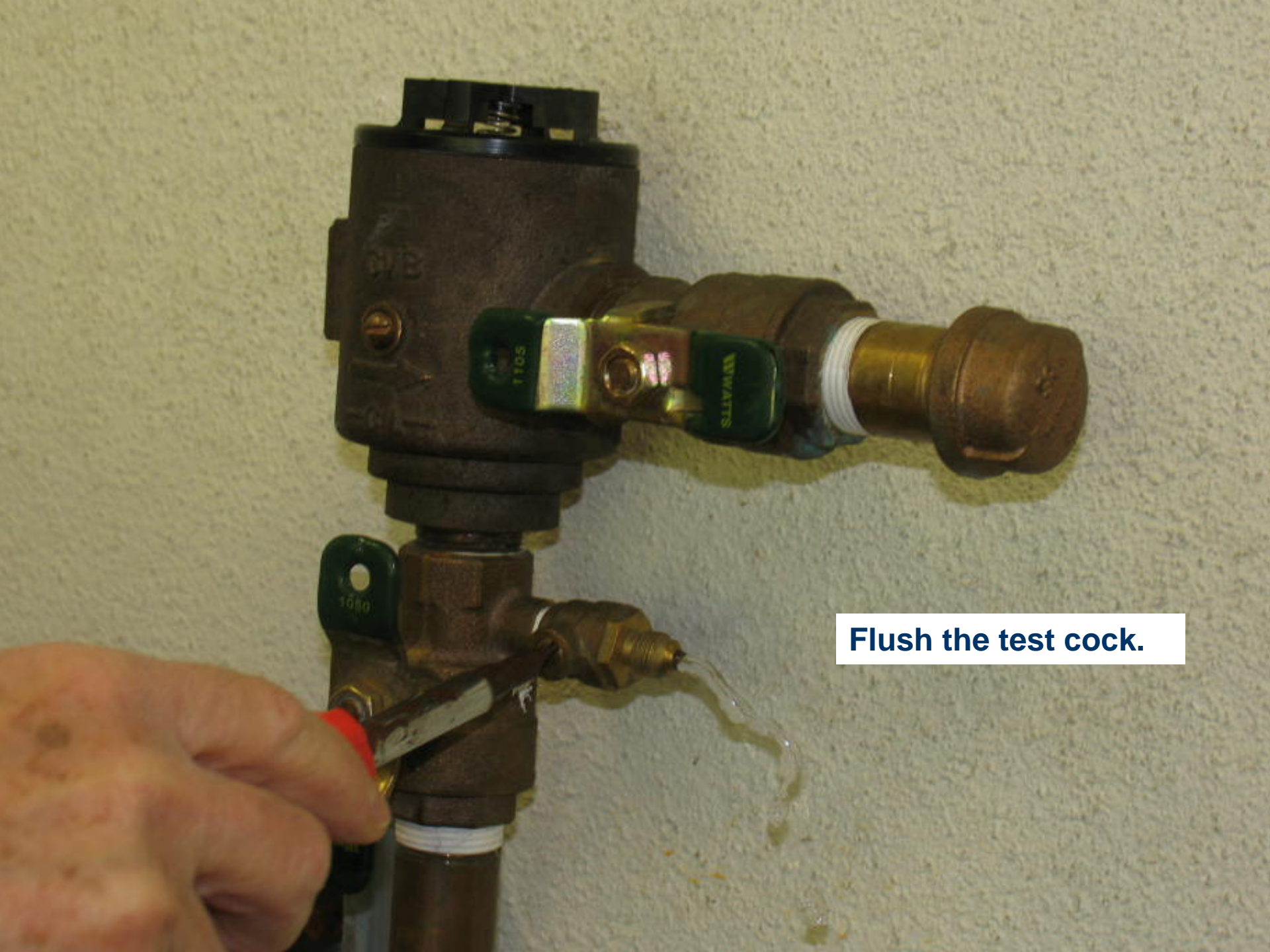
Upon arrival, what do you observe?

- Missing canopy
- Direction of flow
- Leaky test cocks
- Relief valve discharging
- Shutoff valves close/open
- Any hoses connected to the device
- Etc.



Remove the canopy from the top of the device.



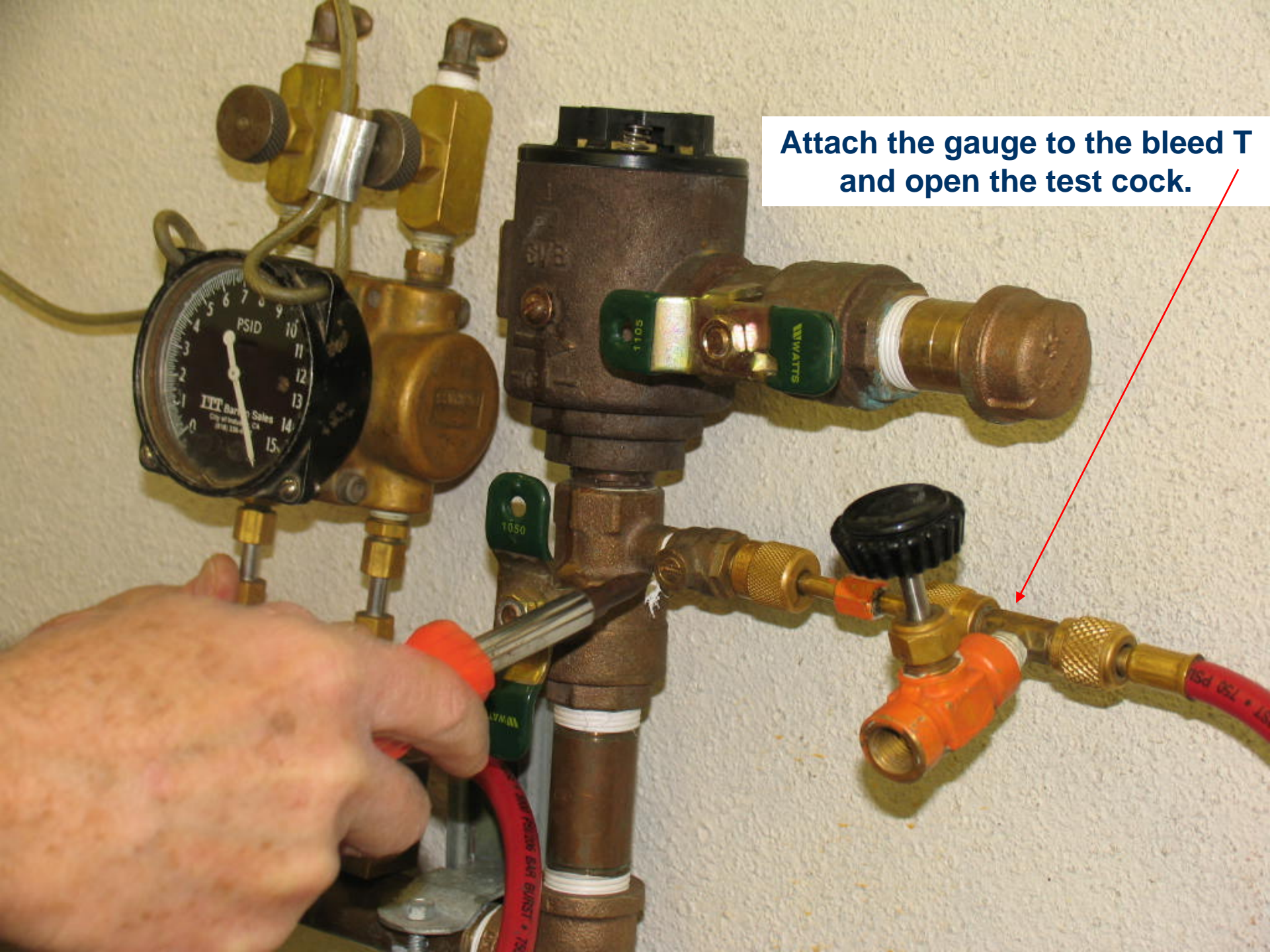


Flush the test cock.

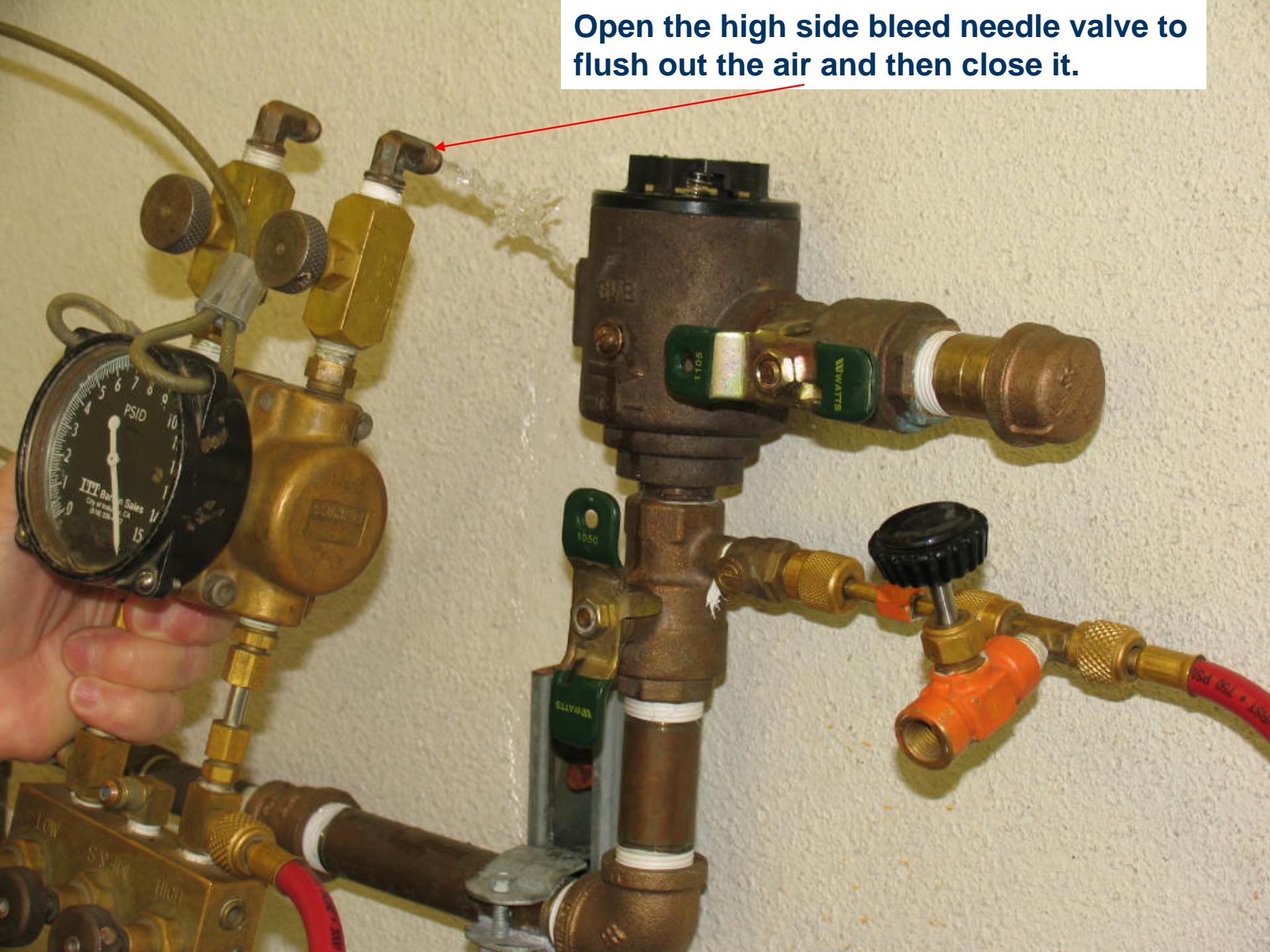
Flush the vent by opening the vent screw.



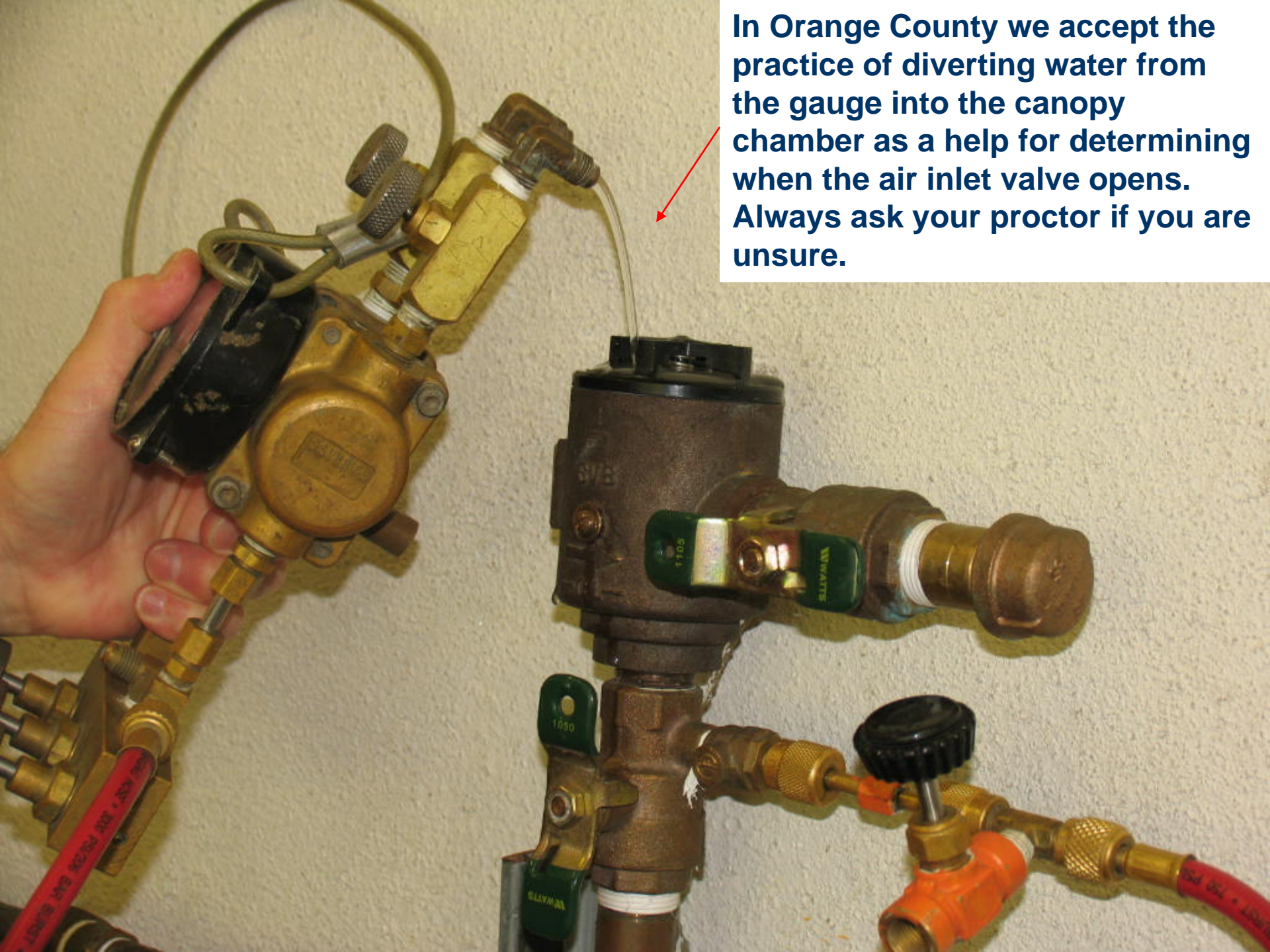
Attach the gauge to the bleed T and open the test cock.



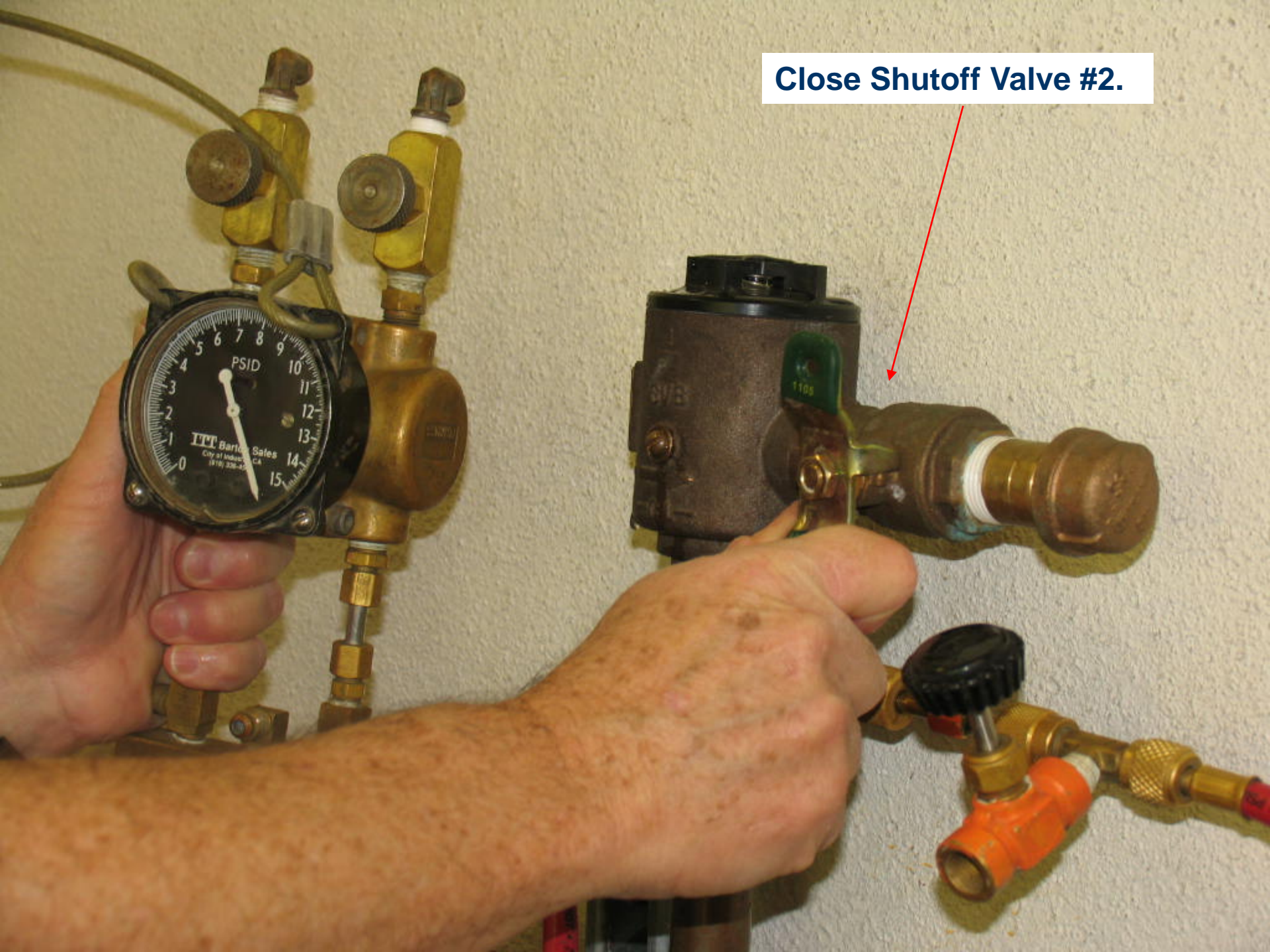
Open the high side bleed needle valve to flush out the air and then close it.



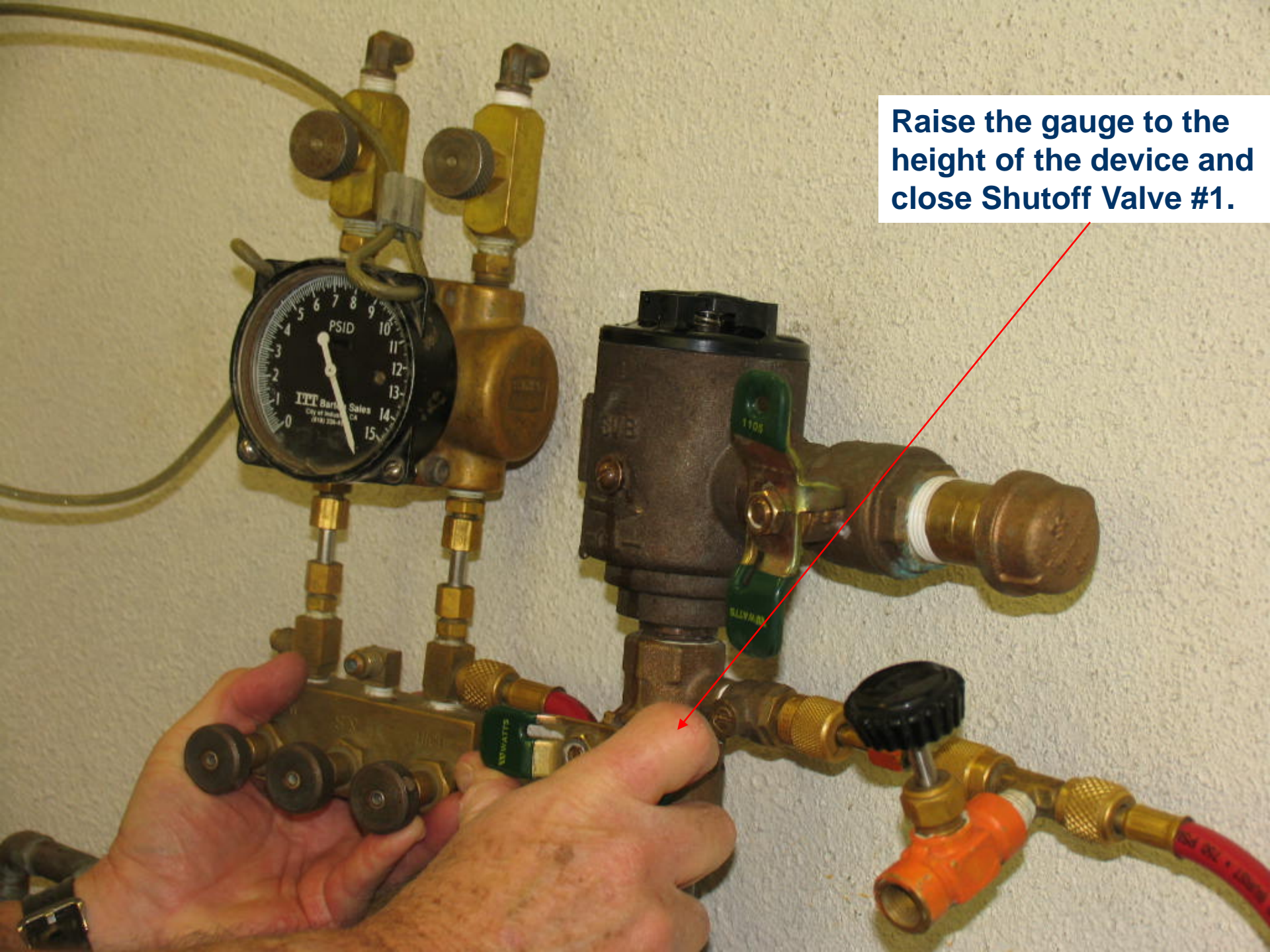
In Orange County we accept the practice of diverting water from the gauge into the canopy chamber as a help for determining when the air inlet valve opens. Always ask your proctor if you are unsure.



Close Shutoff Valve #2.



Raise the gauge to the height of the device and close Shutoff Valve #1.



Open the vent screw to drop the outlet pressure to atmospheric pressure.



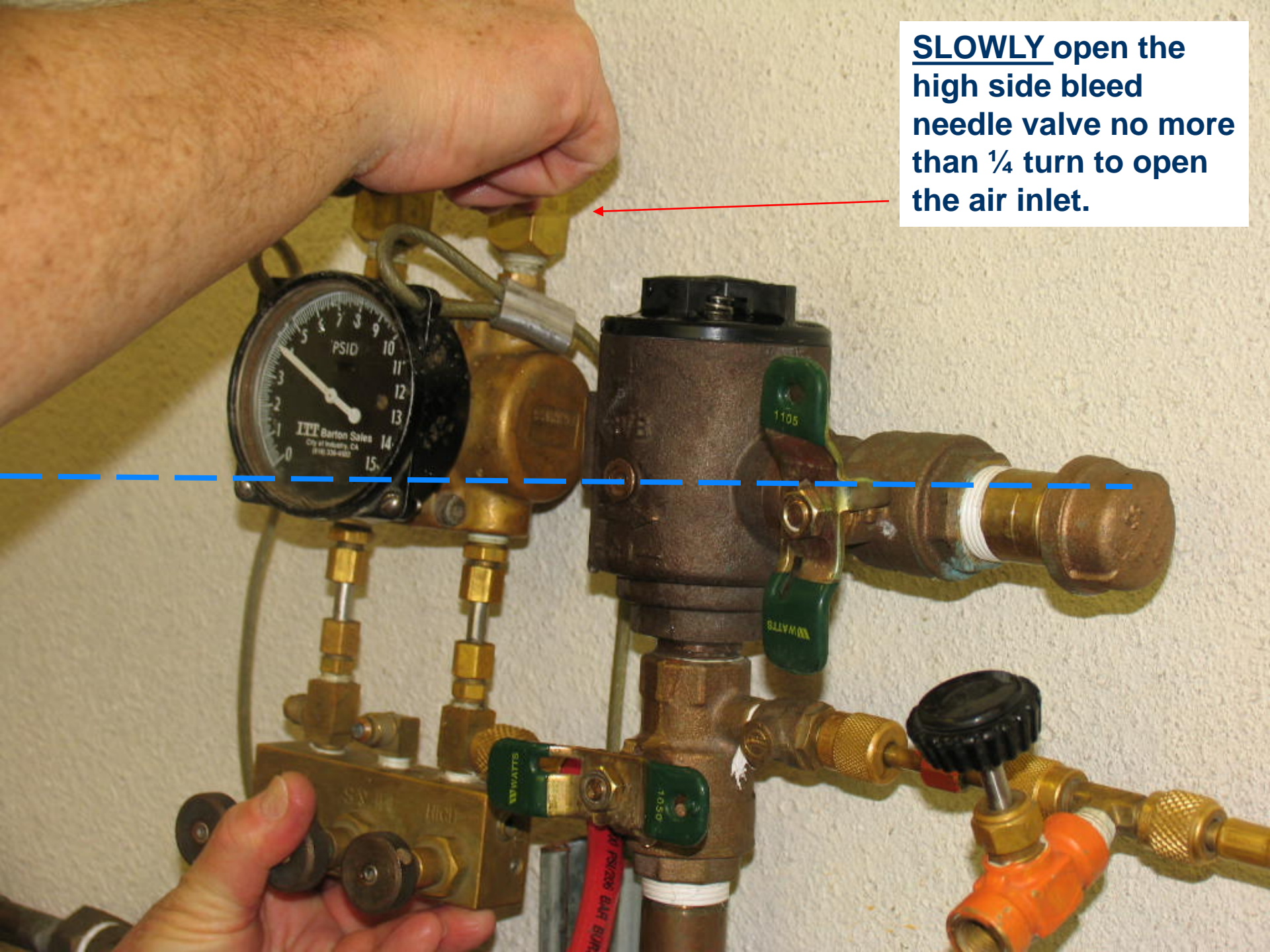
With the vent screw removed (DO NOT LOSE) and the gauge at the height of the device, record the static pressure across the check valve. **The reading must be a minimum of 1.0 PSI.**



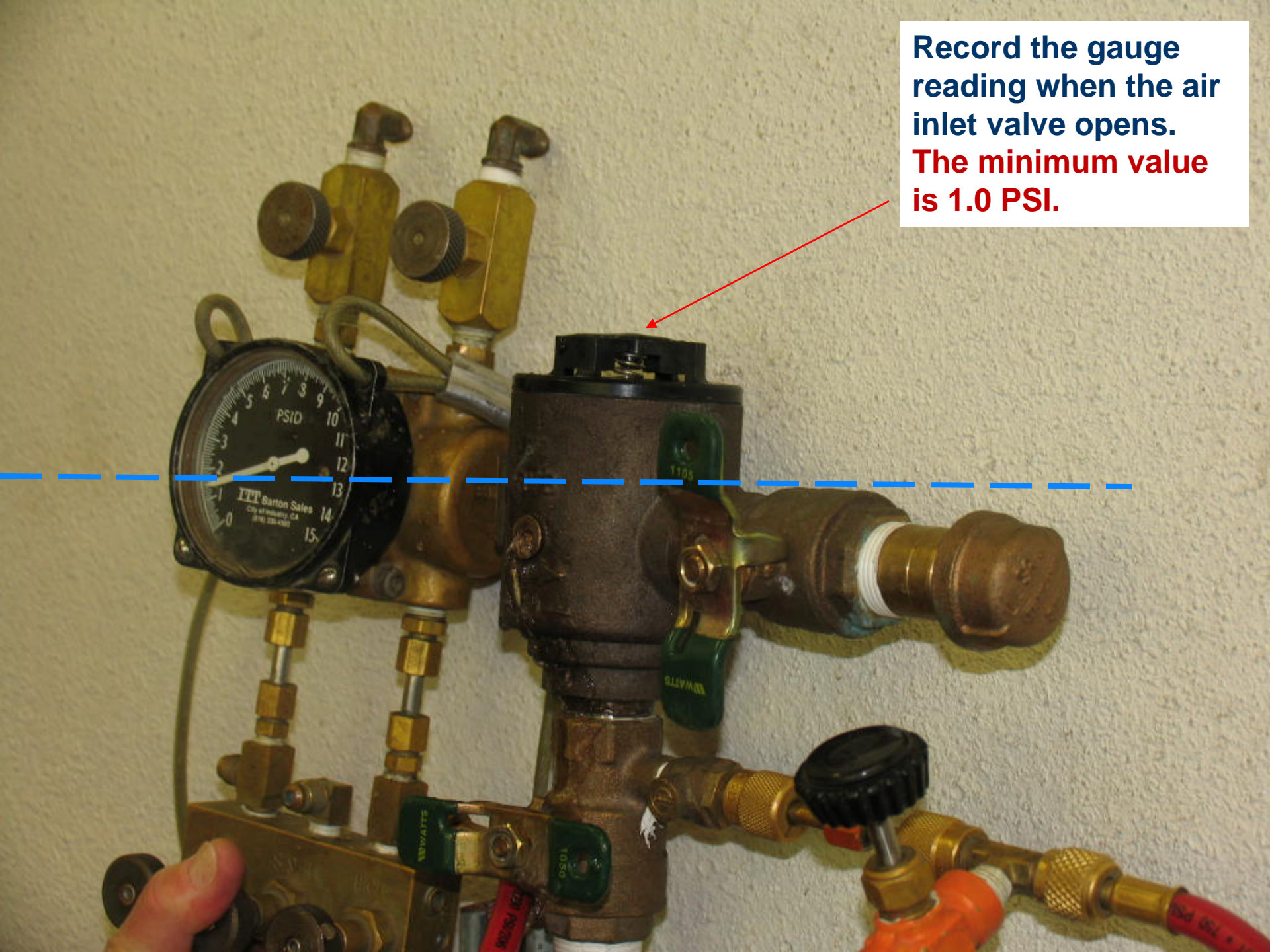
Remember, if you have a leaking #1 shutoff valve, you can always use the compensation bleed T to complete the test.



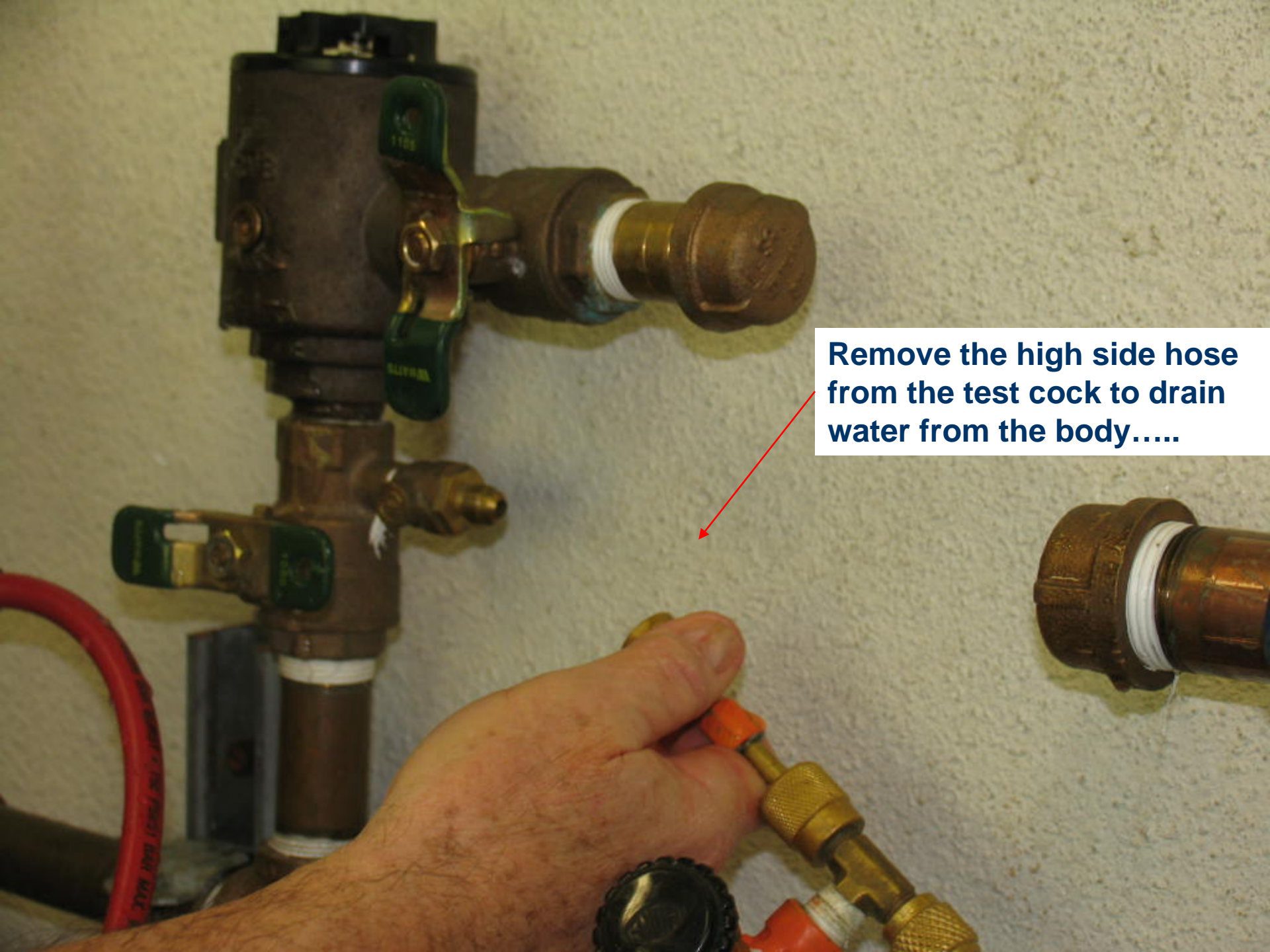
SLOWLY open the high side bleed needle valve no more than $\frac{1}{4}$ turn to open the air inlet.



Record the gauge reading when the air inlet valve opens.
The minimum value is 1.0 PSI.



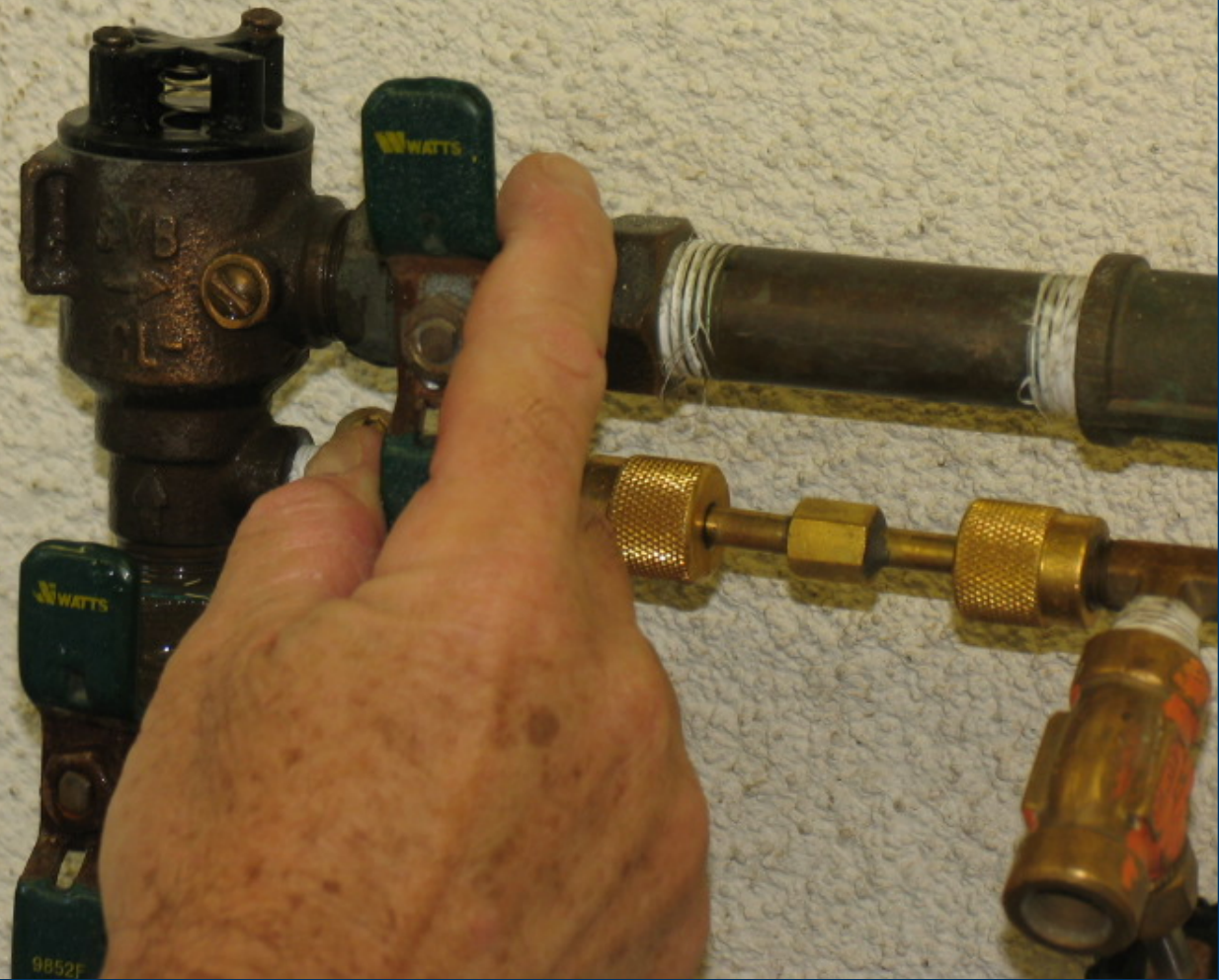
Remove the high side hose from the test cock to drain water from the body.....



....and look down into the chamber and verify the air inlet valve has opened completely.




Close the the vent screw and test cock, remove the test gear, open Shut Off Valve #1 and #2, and replace the canopy.



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



Please return to appropriate water purveyor
AND The County of Orange at:
OCBackflowTests@ochca.com or
714-4336481 (fax) or
1241 E. Dyer Rd. #120
Santa Ana, CA 92705

BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

OWNER: _____ ADDRESS: _____
 MANUFACTURE: _____ MODEL: _____ SIZE: _____ TYPE: _____
 SERIAL NUMBER: _____ LOCATION: _____

REDUCED PRESSURE PRINCIPLE ASSEMBLY				LINE PRESSURE
DOUBLE CHECK VALVE ASSEMBLY				
	CHECK VALVE #1	CHECK VALVE #2	RELIEF VALVE	PVB/SVB
Initial Test	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	OPENED AT _____ PSID DID NOT OPEN <input type="checkbox"/>	AIR INLET DID NOT OPEN <input type="checkbox"/> AIR INLET FULLY OPEN YES <input type="checkbox"/> NO <input type="checkbox"/>
REPAIRS	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____	CHECK VALVE HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/> <input type="checkbox"/> CLEANED _____ _____ <input type="checkbox"/> REPLACED _____ _____
FINAL TEST	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	OPENED AT _____ PSID	AIR INLET OPENED AT FULLY OPEN YES <input type="checkbox"/> CHECK VALVE HELD AT _____ PSID

COMMENTS _____

INITIAL TEST (Signature) _____ Print Name _____ CERT. TEST NO. _____ DATE _____

FINAL TEST (Signature) _____ Print Name _____ CERT. TEST NO. _____ DATE _____

TESTER'S COMPANY NAME _____ TESTER'S PHONE NUMBER _____

AUGUST 2013

Backflow Testing Review: *PVB*



Backflow Testing Review: *PVB*

Equipment required:

- Approved 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*

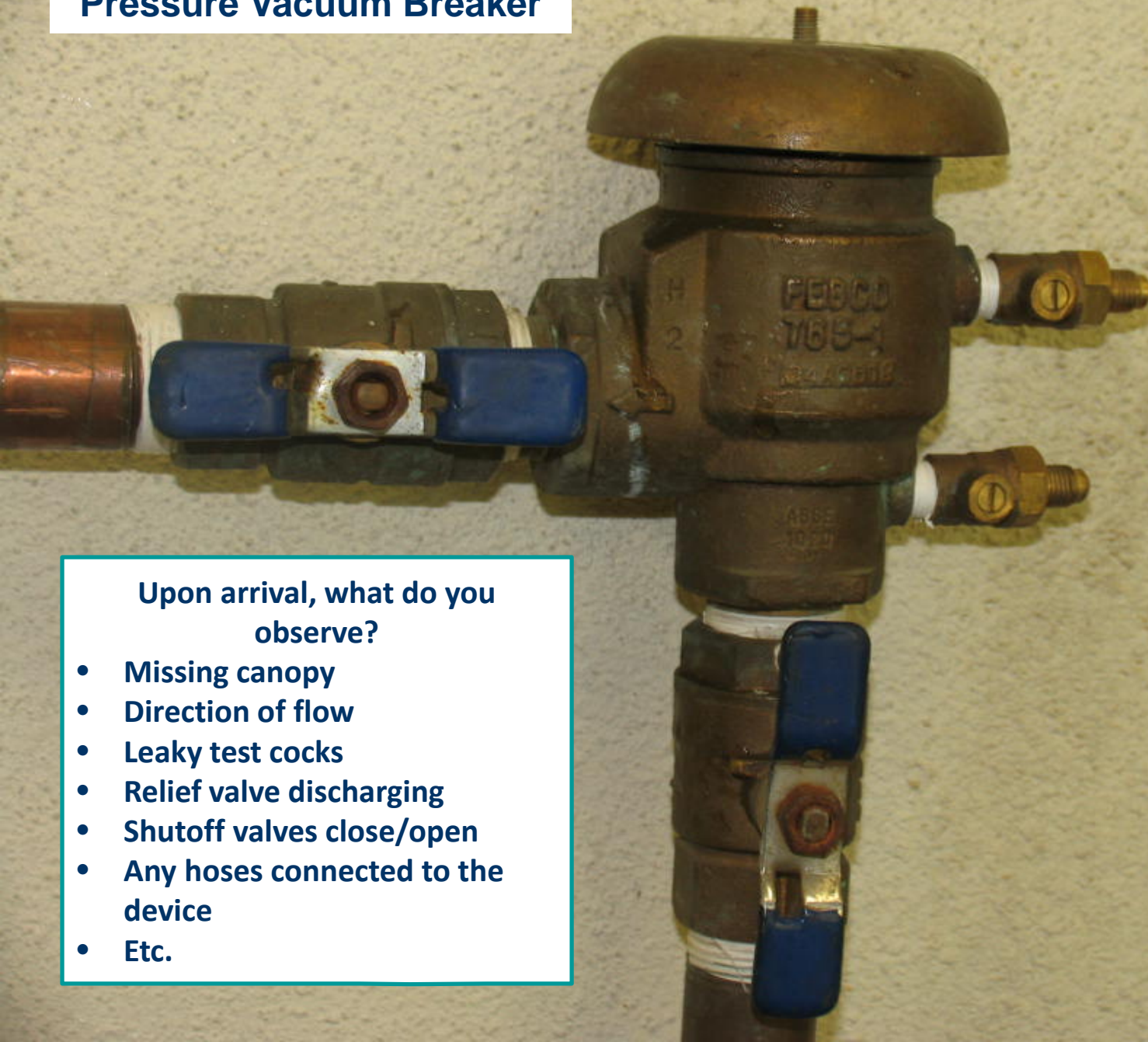
Preliminary Steps

- Notify
- Identify
- Inspect
- Observe

**REMEMBER THAT GAUGE
HEIGHT AND LOOSE HOSES
WILL AFFECT YOUR
READINGS!!**



Pressure Vacuum Breaker



Upon arrival, what do you observe?

- Missing canopy
- Direction of flow
- Leaky test cocks
- Relief valve discharging
- Shutoff valves close/open
- Any hoses connected to the device
- Etc.

A close-up photograph of a person's hand removing a clear plastic showerhead canopy from a faucet handle. The faucet handle is a dark, cylindrical metal component with two brass-colored adjustment knobs on its side. The hand is positioned on the left, with fingers gripping the top of the clear plastic canopy. The background is a light-colored, textured wall. A white rectangular box with blue text is overlaid on the right side of the image.

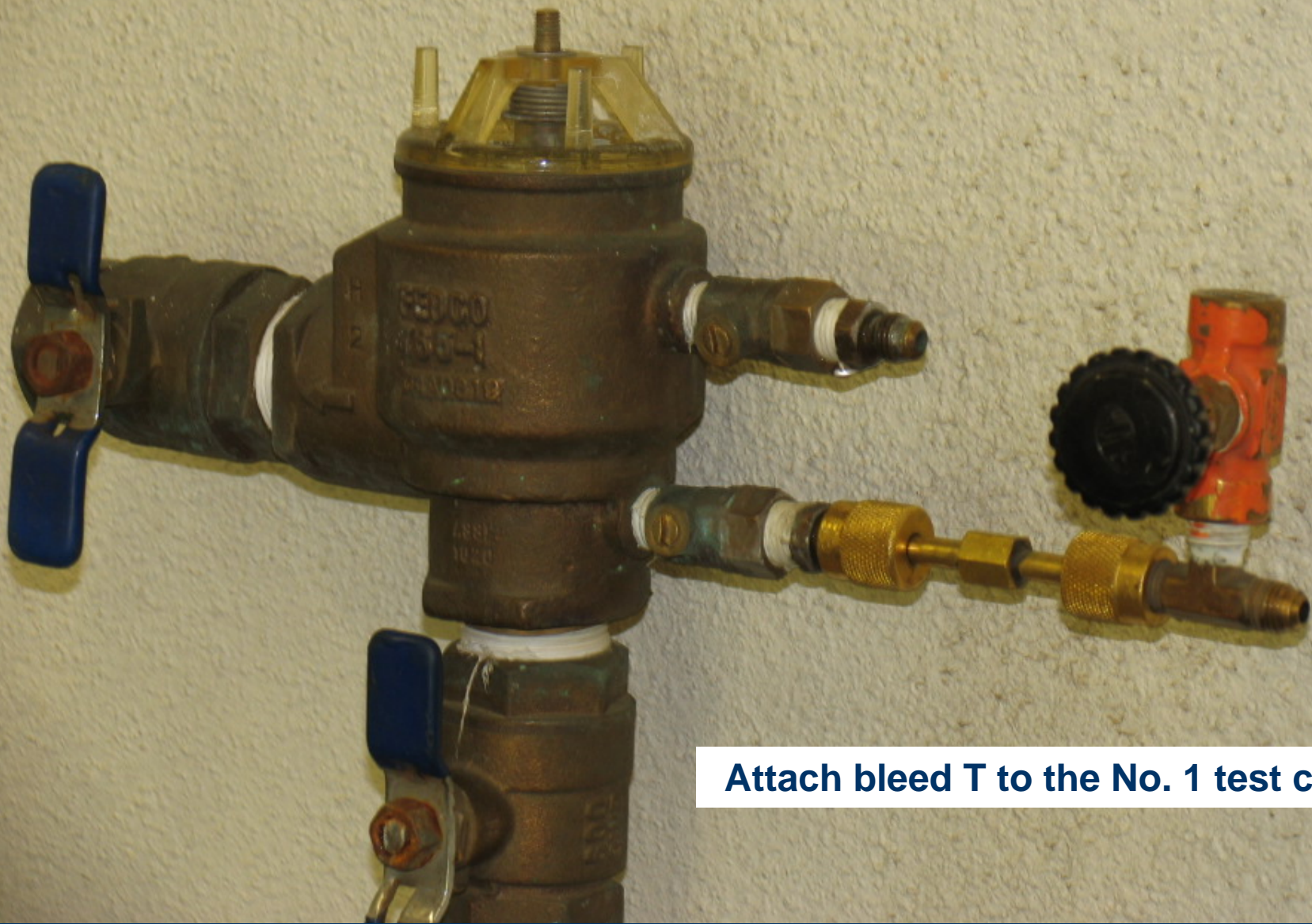
Remove the canopy.

**Flush and close
the No. 1 test cock
to remove any
debris.**



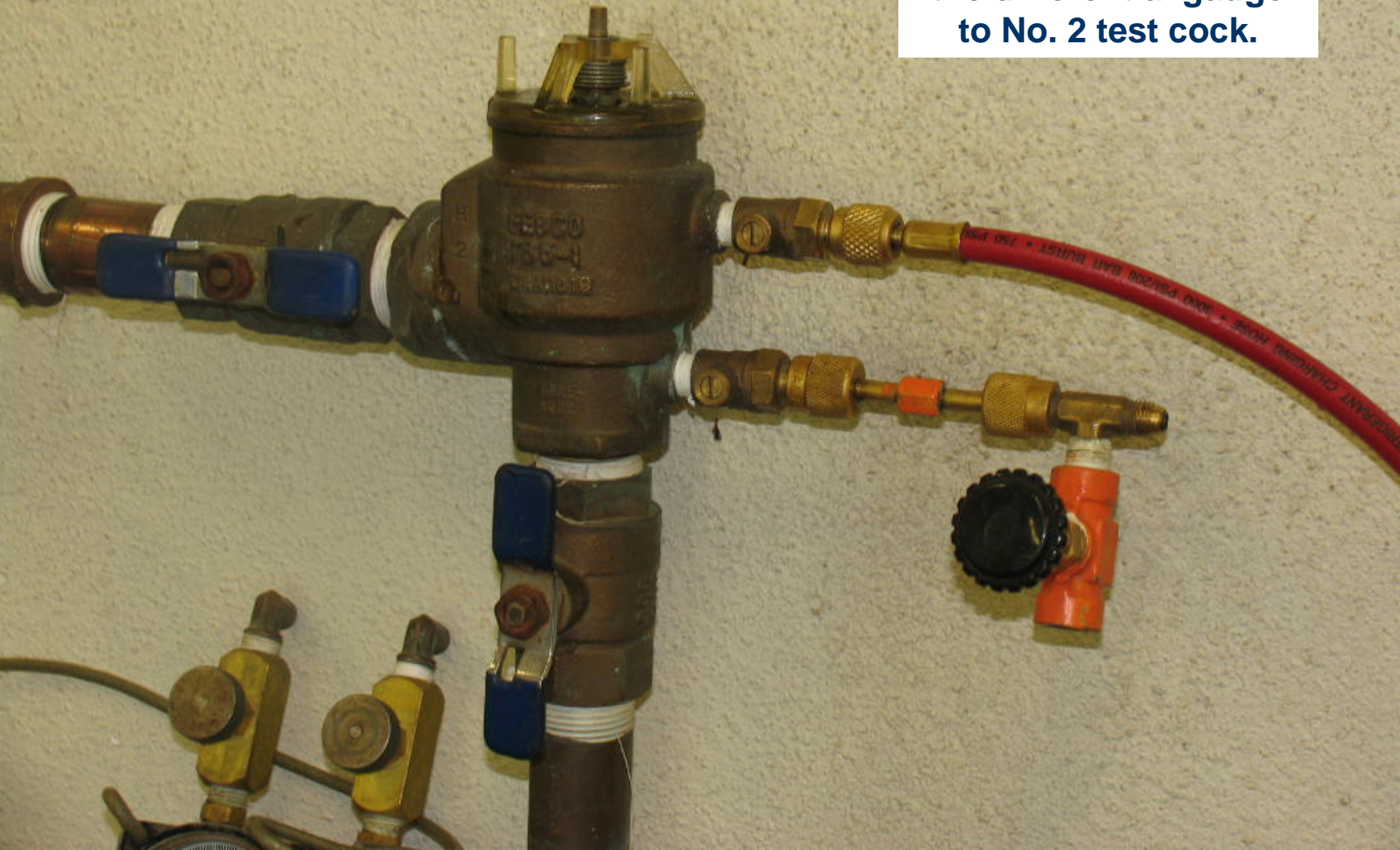
**Flush and close
the No. 2 test cock
to remove any
debris.**





Attach bleed T to the No. 1 test cock.

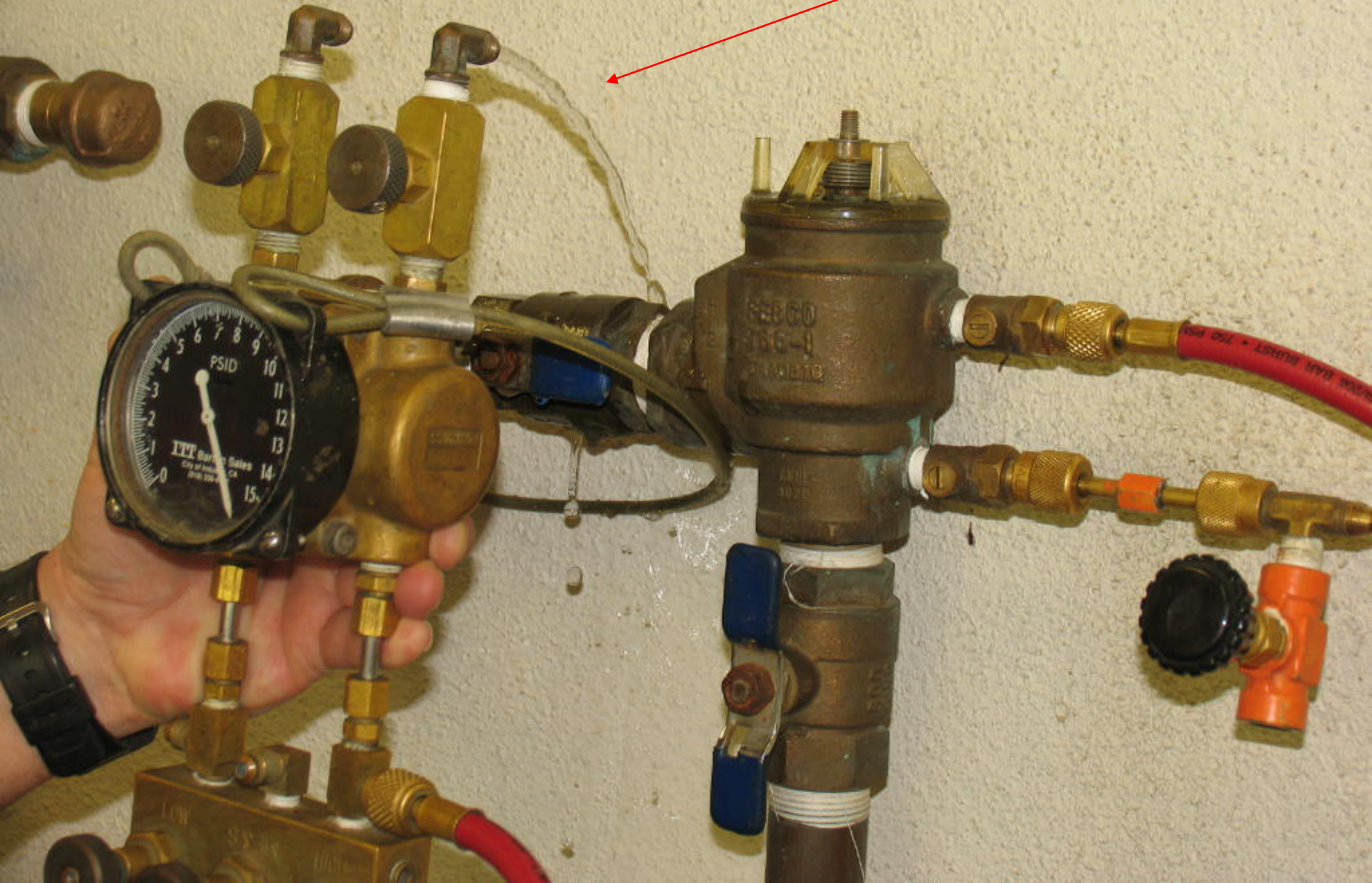
Attach the high side of the differential gauge to No. 2 test cock.



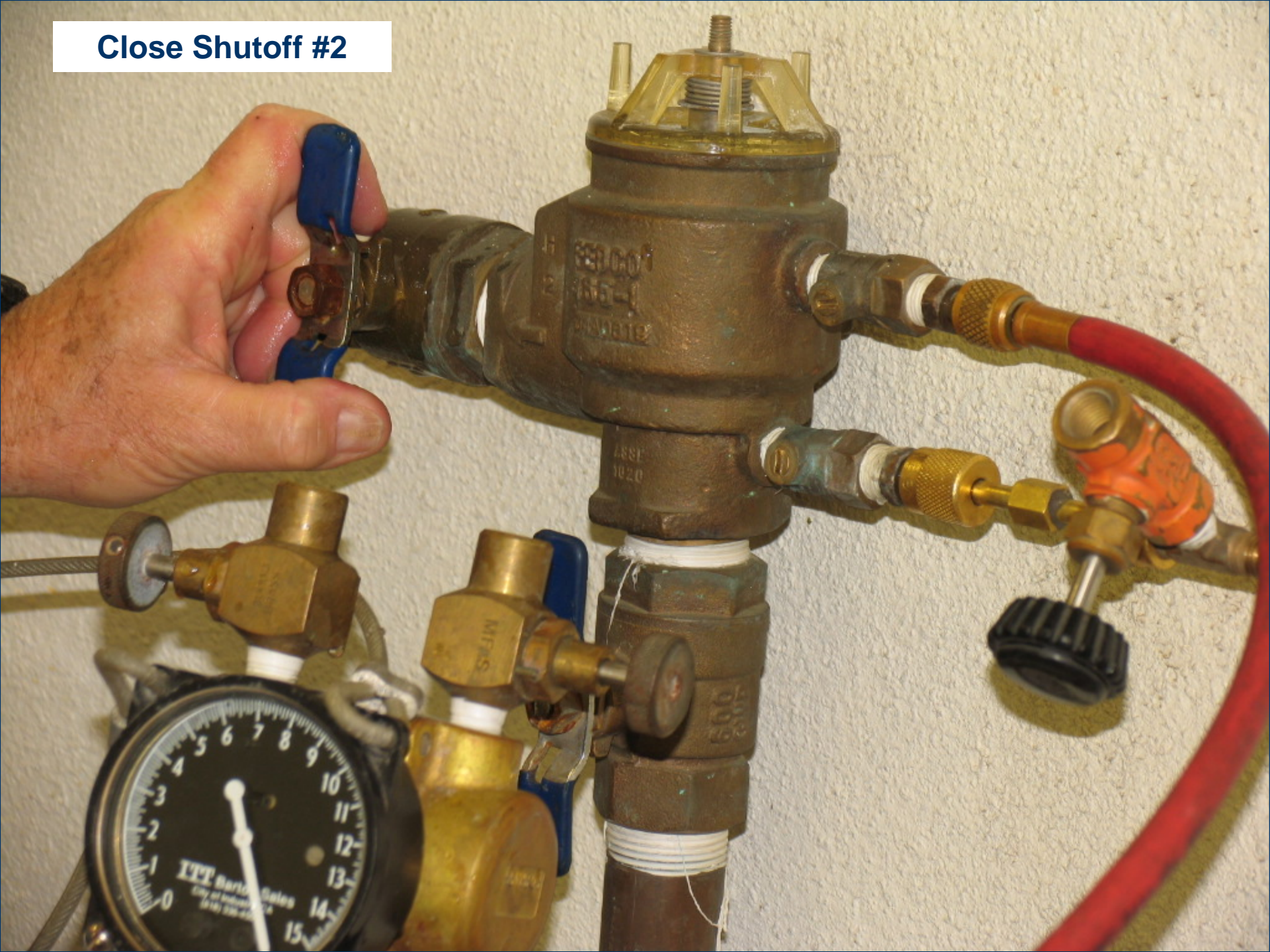
Open the No. 2 test cock.



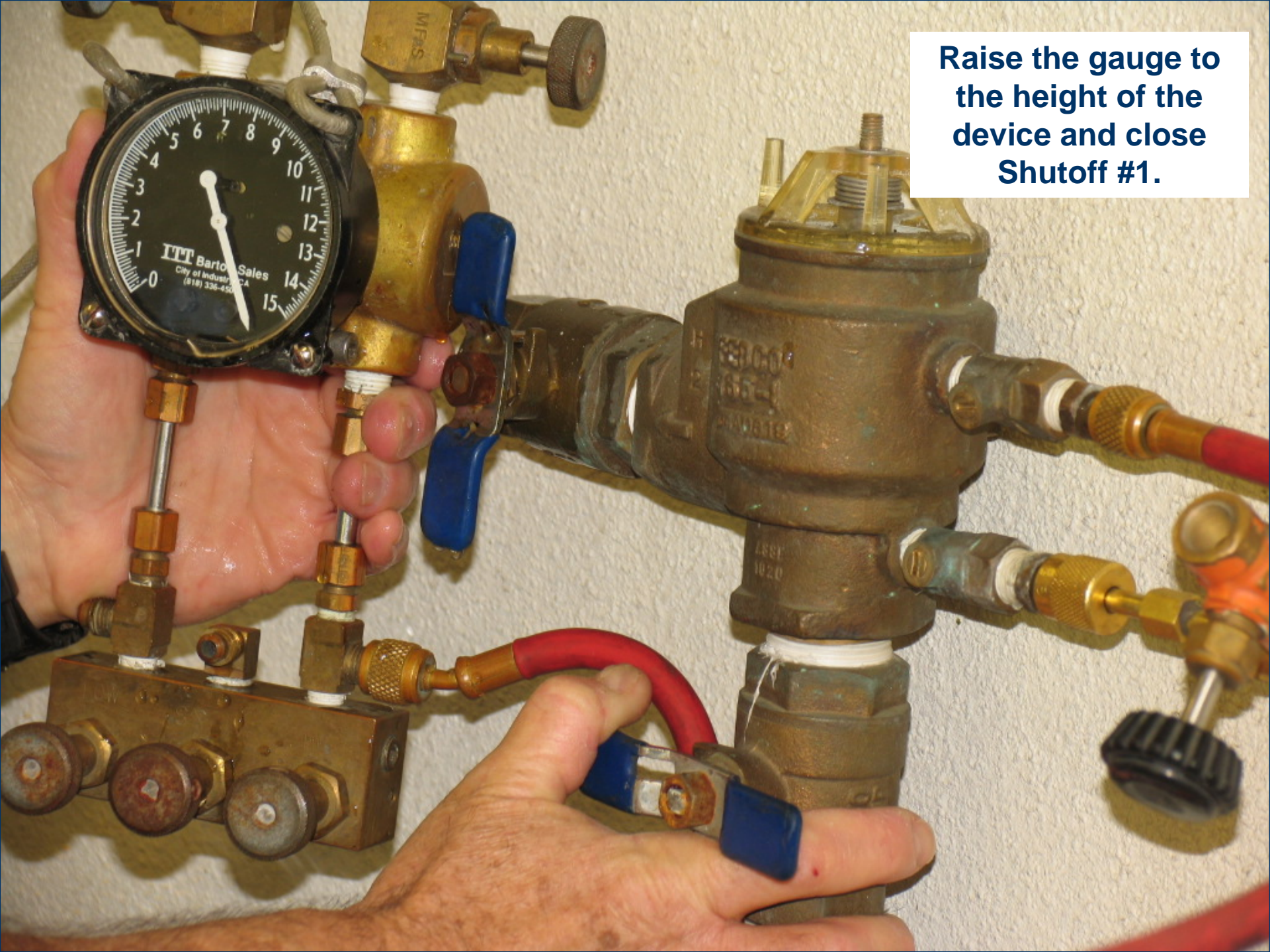
Open the high side bleed to remove air and then close the valve.



Close Shutoff #2



Raise the gauge to the height of the device and close Shutoff #1.



To open the air inlet valve, SLOWLY open the high side bleed needle valve no more than ¼ turn.



Note the gauge reading when the air inlet valve opens and record it on the test report form. **Minimum 1.0 PSI or greater.**



Remove the high side hose from No. 2 test cock.





Allow water to drain from the device body until there is a break in flow....

...and then observe the air inlet valve to ensure it fully opened.





**Close the No. 2 test cock
and turn on Shutoff Valve
#1 to pressurize the
device.**

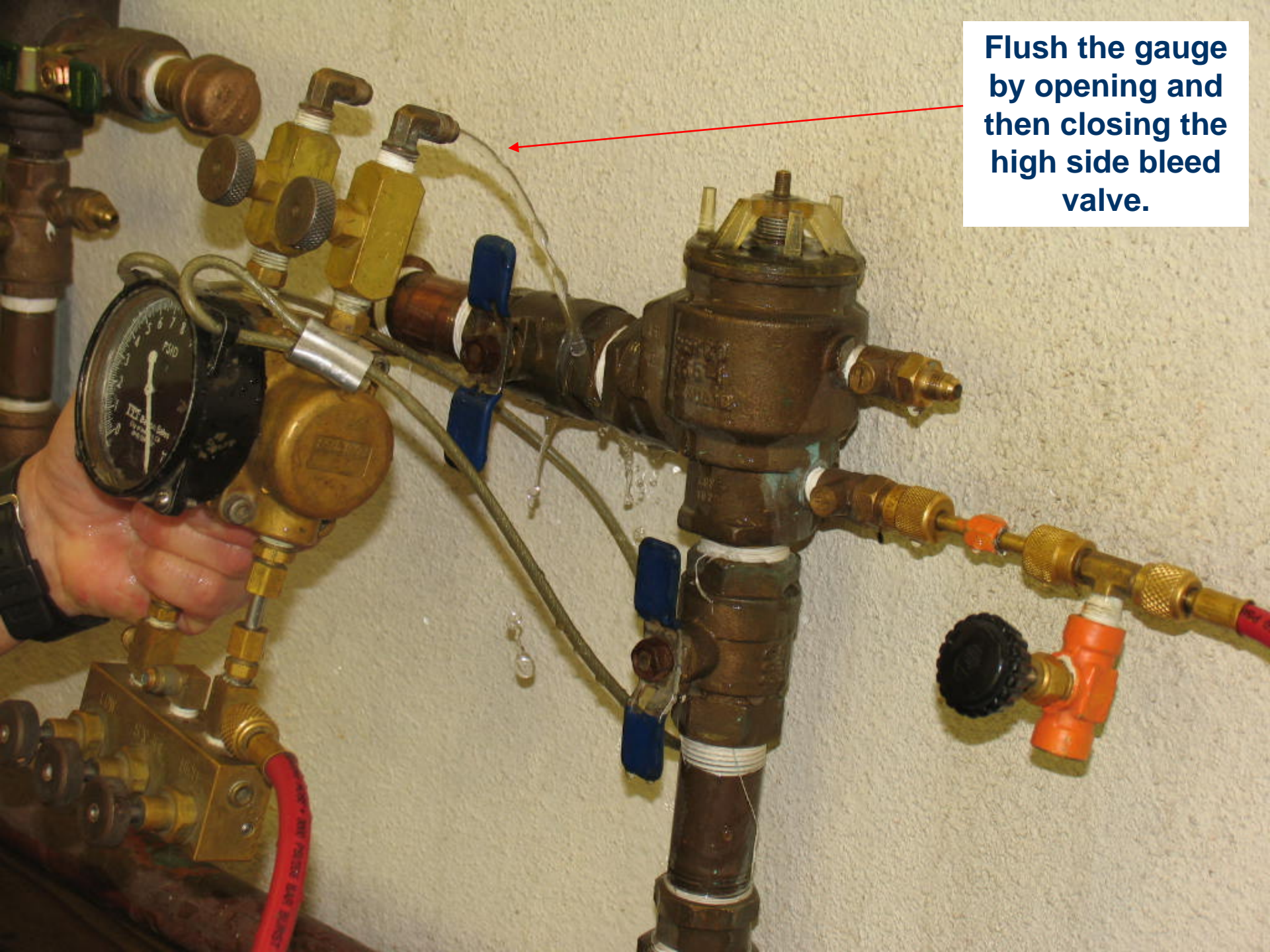




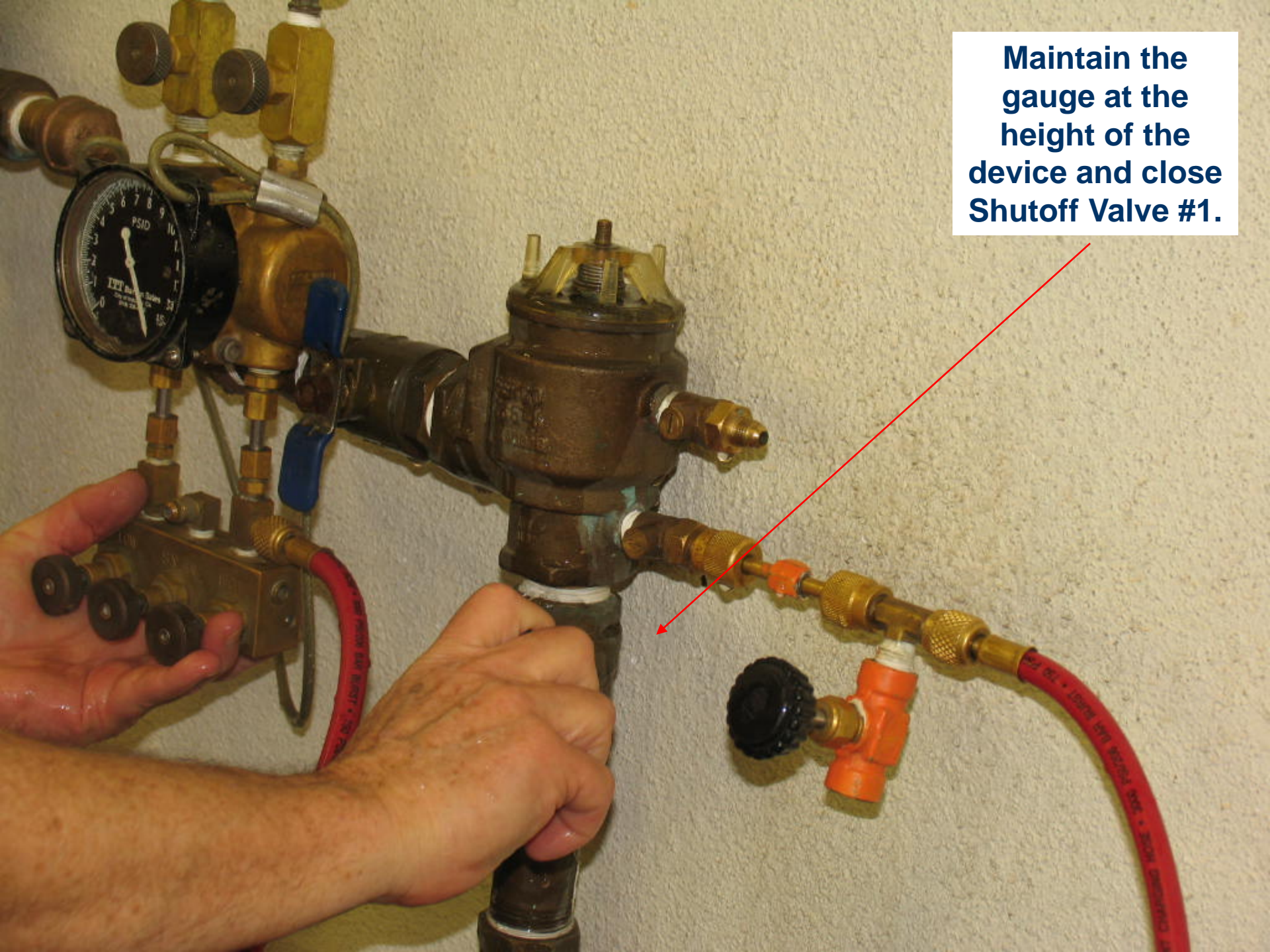
Connect the gauge to No. 1 test cock and open it to pressurize the gauge.



Flush the gauge by opening and then closing the high side bleed valve.



Maintain the gauge at the height of the device and close Shutoff Valve #1.



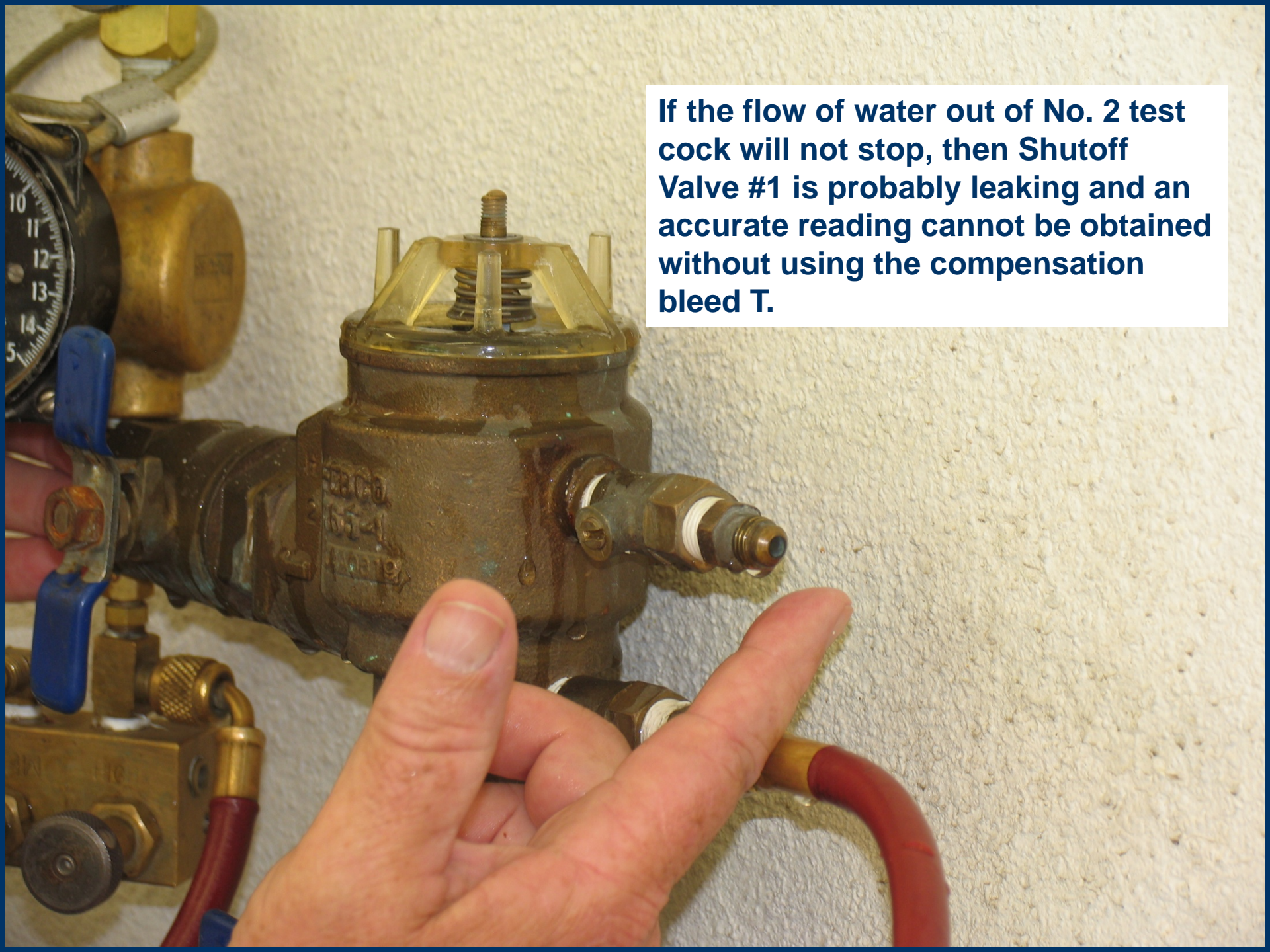
**Open the No. 2 test
cock and allow water
to drain from the body
of the device.**



When there is no flow or no more than a drip from the No. 2 test cock, the reading on the gauge must be at least 1.0 PSI or greater.



If the flow of water out of No. 2 test cock will not stop, then Shutoff Valve #1 is probably leaking and an accurate reading cannot be obtained without using the compensation bleed T.





To compensate, open the compensation bleed T enough so that only a slight drip is emerging from the No. 2 test cock.



Close the No. 2 test cock followed by the No. 1 test cock.

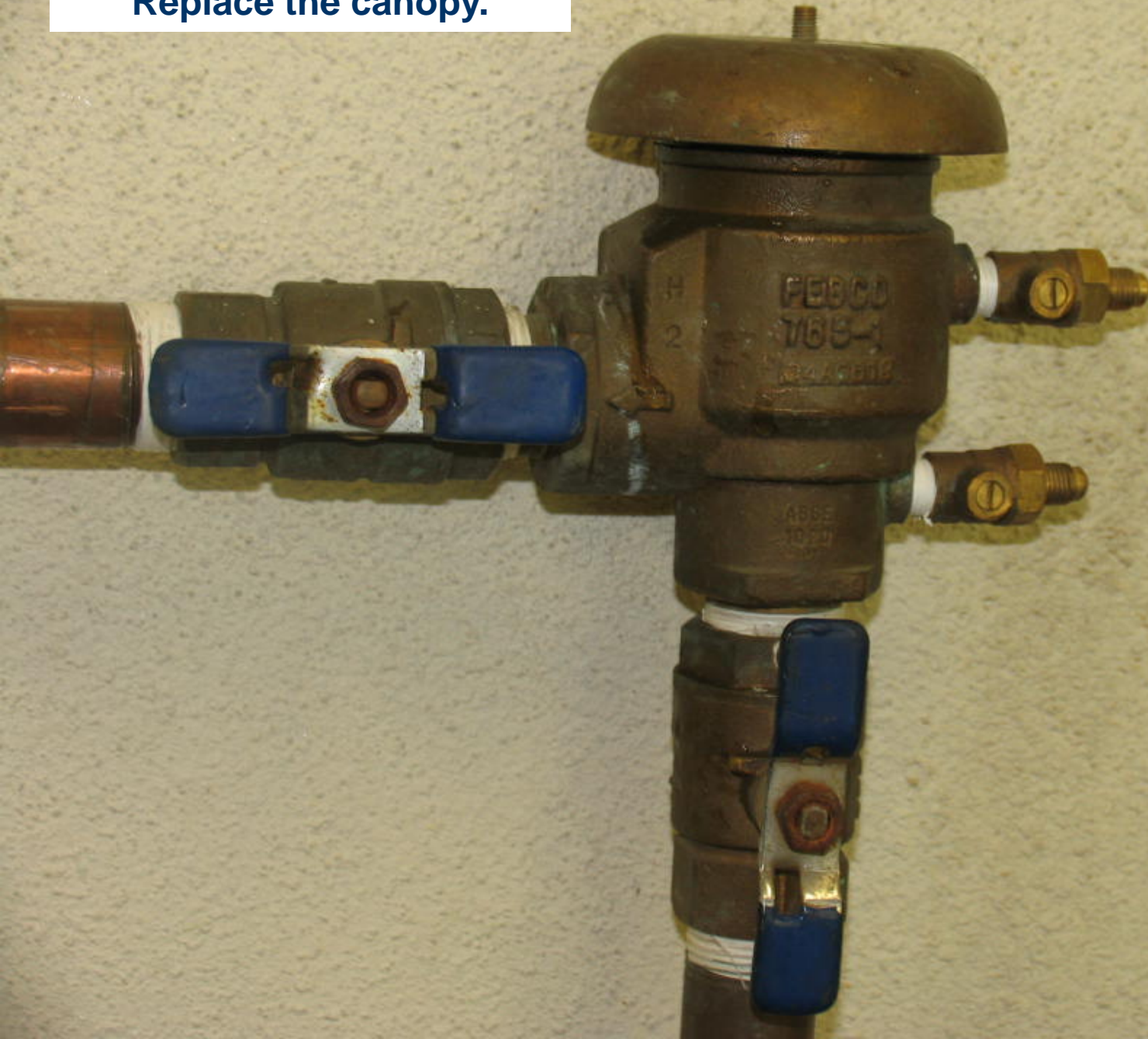




**Open the No. 1 shutoff valve
and then the No. 2 shutoff
valve.**




Replace the canopy.



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
4. Submit the form to the water purveyor AND OCHCA.



Please return to appropriate water purveyor
AND The County of Orange at:
OCBackflowTests@ochca.com or
714-4336481 (fax) or
1241 E. Dyer Rd. #120
Santa Ana, CA 92705

BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

OWNER: _____ ADDRESS: _____
 MANUFACTURE: _____ MODEL: _____ SIZE: _____ TYPE: _____
 SERIAL NUMBER: _____ LOCATION: _____

	REDUCED PRESSURE PRINCIPLE ASSEMBLY			LINE PRESSURE
	DOUBLE CHECK VALVE ASSEMBLY		RELIEF VALVE	PVB/SVB
Initial Test	CHECK VALVE #1	CHECK VALVE #2	RELIEF VALVE	PVB/SVB
	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	OPENED AT _____ PSID DID NOT OPEN <input type="checkbox"/>	AIR INLET DID NOT OPEN <input type="checkbox"/> AIR INLET FULLY OPEN YES <input type="checkbox"/> NO <input type="checkbox"/>
REPAIRS	<input type="checkbox"/> CLEANED _____ _____ <input type="checkbox"/> REPLACED _____ _____	<input type="checkbox"/> CLEANED _____ _____ <input type="checkbox"/> REPLACED _____ _____	<input type="checkbox"/> CLEANED _____ _____ <input type="checkbox"/> REPLACED _____ _____	CHECK VALVE HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/> <input type="checkbox"/> CLEANED <input type="checkbox"/> REPLACED _____ _____
FINAL TEST	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	OPENED AT _____ PSID	AIR INLET OPENED AT FULLY OPEN YES <input type="checkbox"/> CHECK VALVE HELD AT _____ PSID

COMMENTS _____

INITIAL TEST (Signature) _____ Print Name _____ CERT. TEST NO. _____ DATE _____

FINAL TEST (Signature) _____ Print Name _____ CERT. TEST NO. _____ DATE _____

TESTER'S COMPANY NAME _____ TESTER'S PHONE NUMBER _____

AUGUST 2013

Backflow Testing Review: *Troubleshooting*

Proper Positions and Handlings of Gauge: *Falsely Passing or Failing Devices*

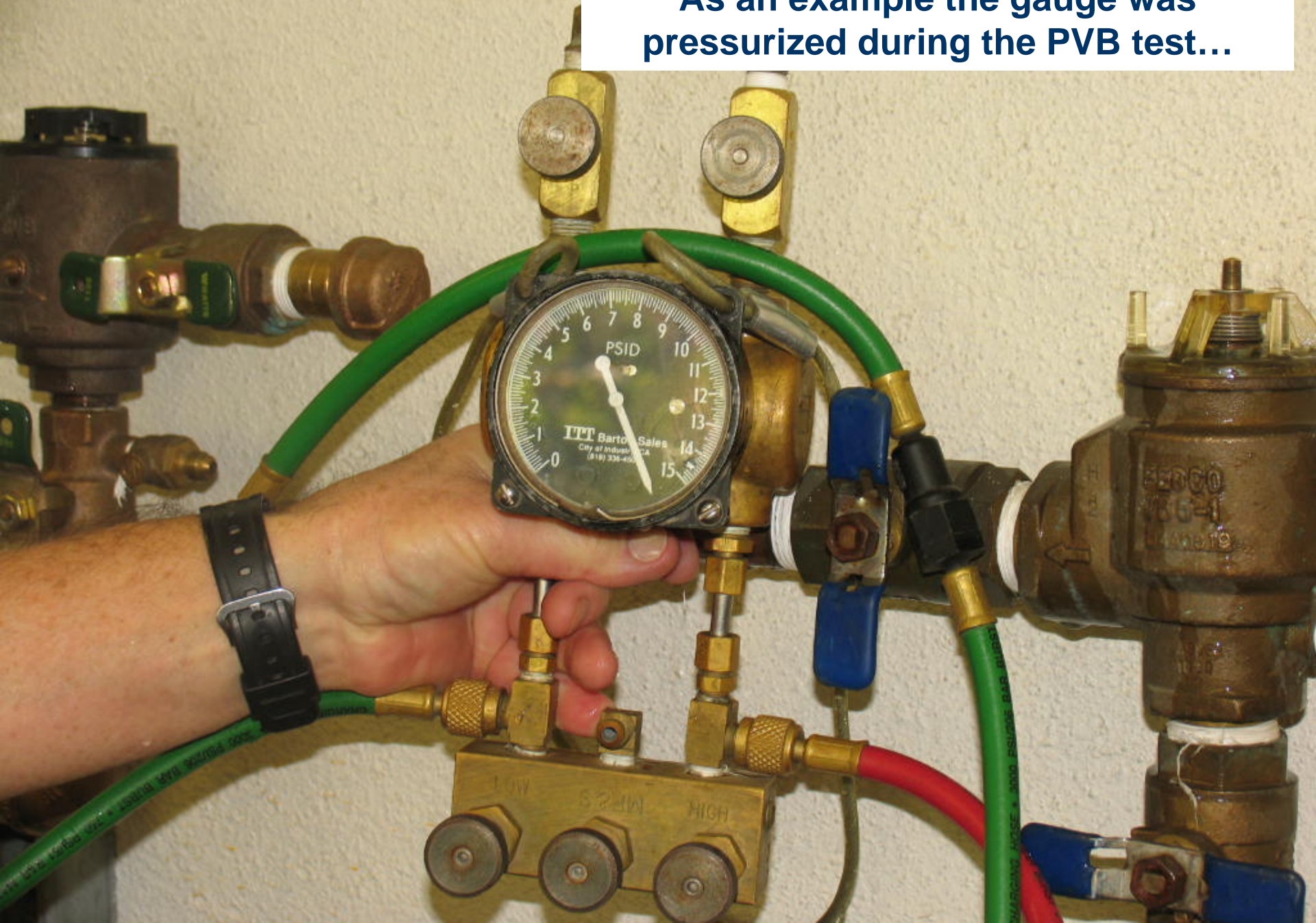


Things are not always what they seem!

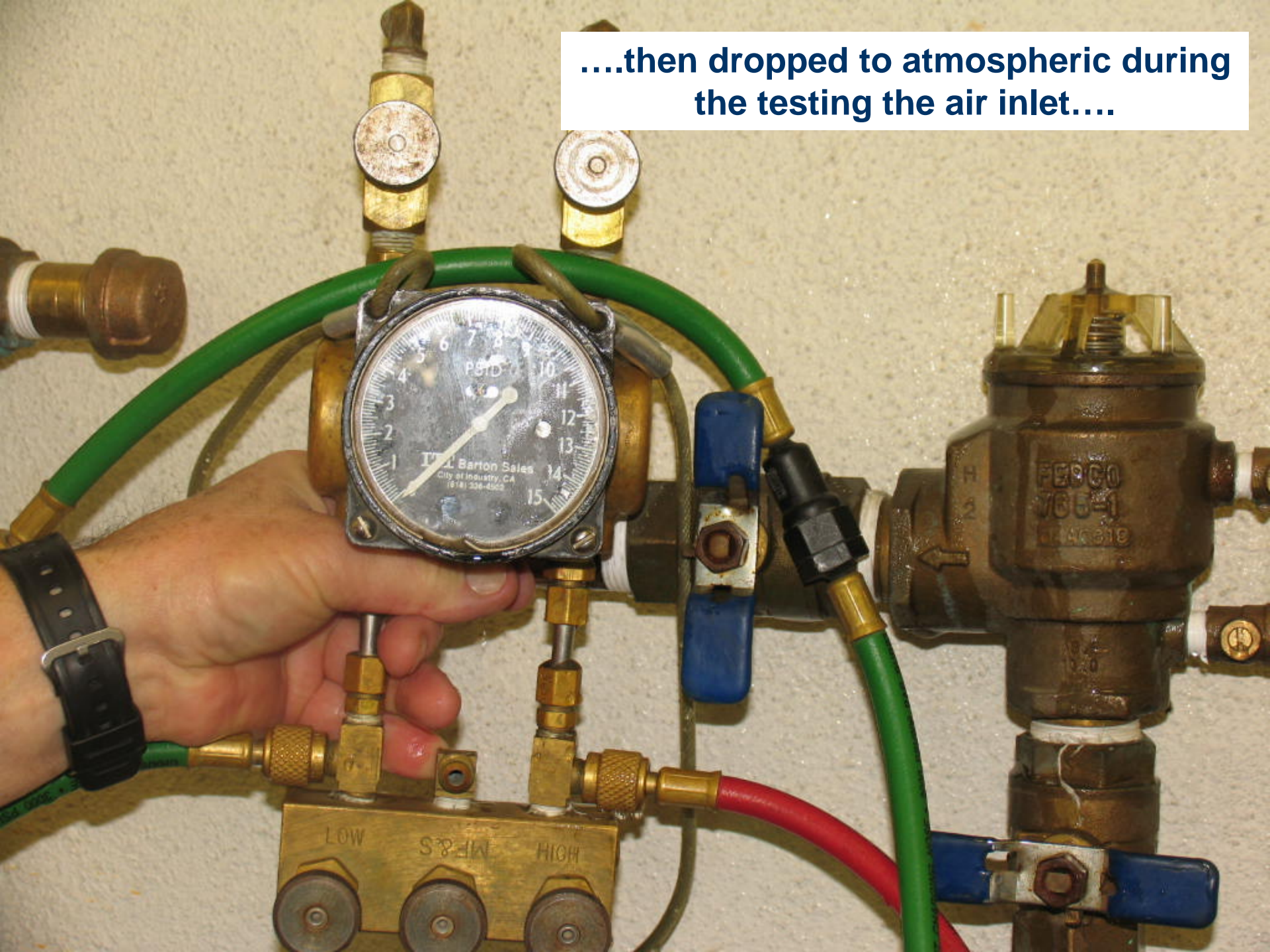
REMEMBER THAT GAUGE HEIGHT
AND LOOSE HOSES WILL AFFECT
YOUR READINGS FOR ALL DEVICES
EXCEPT THE RP ASSEMBLY!!

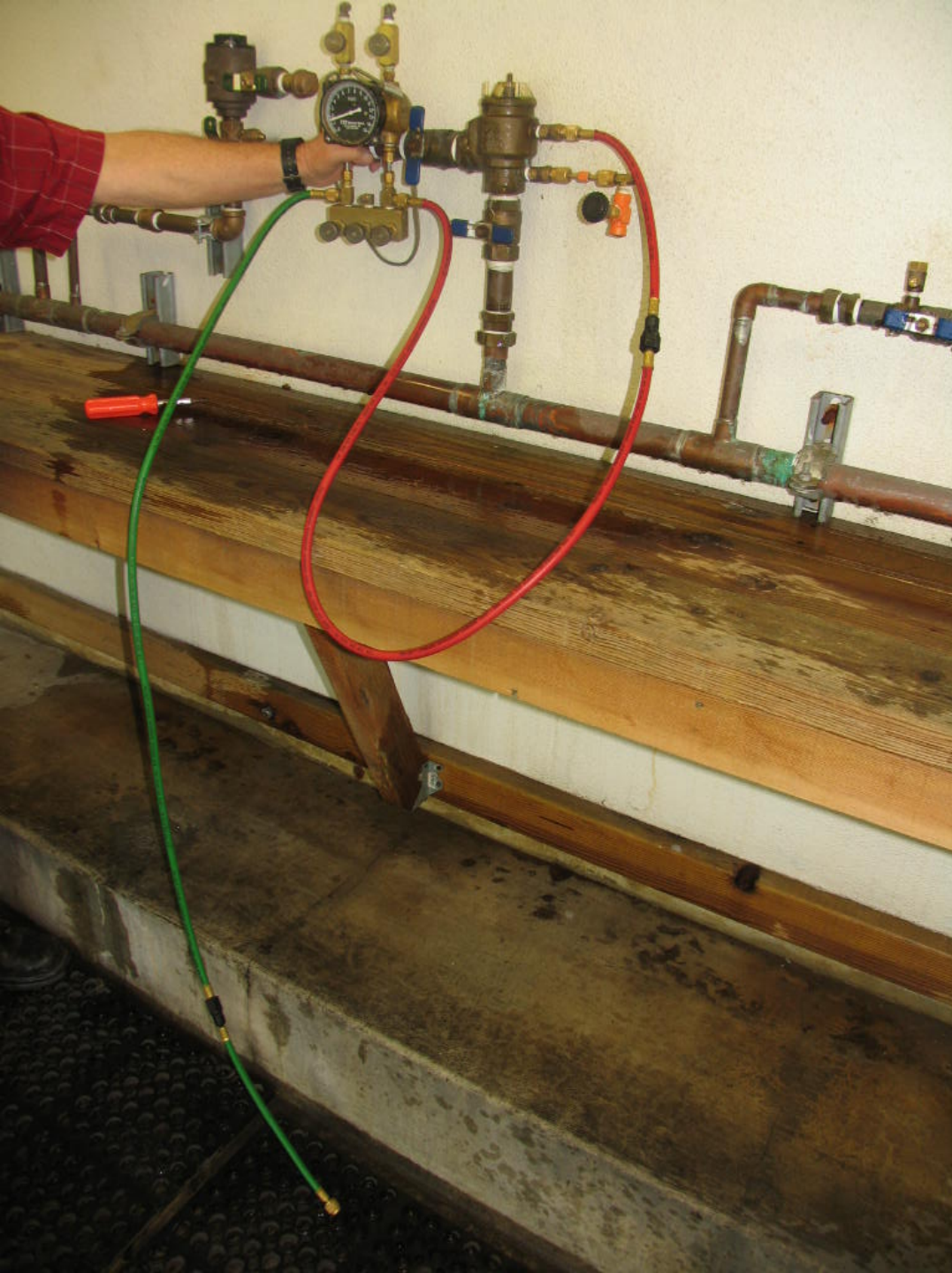


As an example the gauge was pressurized during the PVB test...



....then dropped to atmospheric during the testing the air inlet....





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.

So with the low side hose reaching the floor, the pressure is elevated 1.5 psi and may indicate a passing backflow assembly when it actually is failing!!.....



But let's see what happens when the hose is eliminated....



With the hose removed, the pressure drops to 0.0!






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



**COUNTY OF ORANGE
HEALTH CARE AGENCY
REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH**
 1241 E. Dyer Rd #120, Santa Ana, CA 92705 (714)433-6286 FAX: (714)433-6481
 OCBackflowTests@ochca.com
BACKFLOW PREVENTION ASSEMBLY TEST & MAINTENANCE REPORT

OWNER: _____ ADDRESS: _____

MANUFACTURER: _____ MODEL: _____ SIZE: _____ TYPE: _____

SERIAL NUMBER: _____ LOCATION: _____

REDUCED PRESSURE PRINCIPLE ASSEMBLY			LINE PRESSURE
DOUBLE CHECK VALVE ASSEMBLY			
CHECK VALVE #1	CHECK VALVE #2	RELIEF VALVE	PVB / SVB
INITIAL TEST HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/>	OPENED AT _____ PSID DID NOT OPEN <input type="checkbox"/>	AIR INLET OPENED AT _____ PSID DID NOT OPEN <input type="checkbox"/>
<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____ _____	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____ _____	<input type="checkbox"/> CLEANED _____ _____ _____ <input type="checkbox"/> REPLACED _____ _____ _____	CHECK VALVE HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/> FAILED <input type="checkbox"/> LEAKED <input type="checkbox"/> <input type="checkbox"/> CLEANED _____ <input type="checkbox"/> REPLACED _____ _____ _____
FINAL TEST HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	HELD AT _____ PSID CLOSED TIGHT <input type="checkbox"/>	OPENED AT _____ PSID	AIR INLET _____ PSID CHECK VALVE _____ PSID CLOSED TIGHT <input type="checkbox"/>

PASS FAIL PURVEYOR _____

COMMENTS _____

INITIAL TEST (SIGNATURE) _____ PRINT NAME _____ CERT. TESTER NO. _____ DATE _____

FINAL TEST (SIGNATURE) _____ PRINT NAME _____ CERT. TESTER NO. _____ DATE _____

TESTER'S COMPANY NAME _____ TESTER'S PHONE NUMBER _____

- 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 and 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 10 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*

Last changed: Thursday, March 19, 2020

2132-1120 S Richfield Rd.pdf 504 KB	2132-1150 S Las Brisas Place (3).pdf 1 MB	2132-3801 Belgian Lane.pdf 434 KB	2132-3871 Belgian Lane.pdf 434 KB
2132-3878 Welsh Pony Lane.pdf 433 KB	2132-3936 Congressional Ct.pdf 432 KB	2132-4048 Duke Dr.pdf 480 KB	2132-4244 Genoa Way.pdf 479 KB
2132-4343 Avocado Grove Ln.pdf	2132-4357 Avocado Grove Ln.pdf	2132-5042 Burgundy Lane.pdf	2132-16631 Lathrop Dr.pdf



1717 E. Miraloma Ave., Placentia, CA 92870
Phone: (714) 701-3000 Fax: (714) 701-3058
Email: backflowreports@ylwd.com

Save All Attachments

Attachments:

2132-4244 Genoa Way.pdf

OK

BACKFLOW PREVENTION DEVICE ELD TESTING & MAINTENANCE REPORT

FIRST NOTICE



Yorba Linda Water District Backflow Test Reports

Retention Policy HCA Default Retention Policy - 732 Days (2 years)

Expires 3/13/2022

2132-5058 Burgundy Lane.pdf 433 KB	2132-17121 Santa Cruz Court.pdf 432 KB	2132-18130 Spyglass Hill.pdf 432 KB	2132-18140 Watson Way.pdf 441 KB
2132-18233 Nicklaus Road.pdf 441 KB	2132-18905 Seabiscuit Run.pdf 700 KB	2132-22833 La Palma Ave.pdf 2 MB	

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 he/she is 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!



VI. Certification Testing

© 2014



Certification Testing- *Why?*

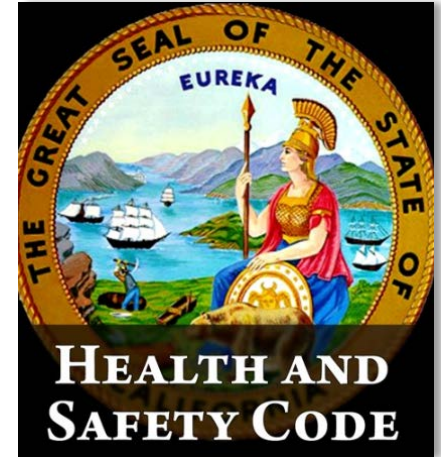
Why is Certification Important?



- **Certification with OCHCA is required 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.

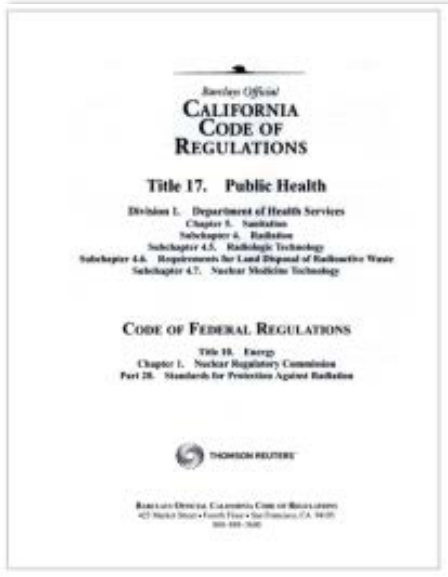
Certification Testing- *Why?*

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 attended and passed a backflow device tester's course that is approved by OCHCA. The course must provide at least forty 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:

- Rancho Santiago College Water Utilities Science 106
- 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 OCBackFlowTests@ochca.com 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 complete a written troubleshooting quiz.**

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:

- Proof of your tester certificate within 30 days of passing
- Completed application
- Backflow tester fee payment

Both the written and practical exam may not be required!

Sign In Cr

American Water Works Association
California-Nevada Section

ABOUT THE SECTION EVENTS & CLASSES

USC University of Southern California

**Foundation for Cross-Connection Control
and Hydraulic Research** **75** CELEBRATING YEARS

a Division of the University of Southern California

about | contact us

Certification Testing: *New Tester Process*

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

- Schedule appointment
- Provide proof of other County certification
- Submit completed application
- Pay backflow tester fee
- Pass the practical hands-on exam



VII. 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 in the Spring and Fall. The training is currently available online.

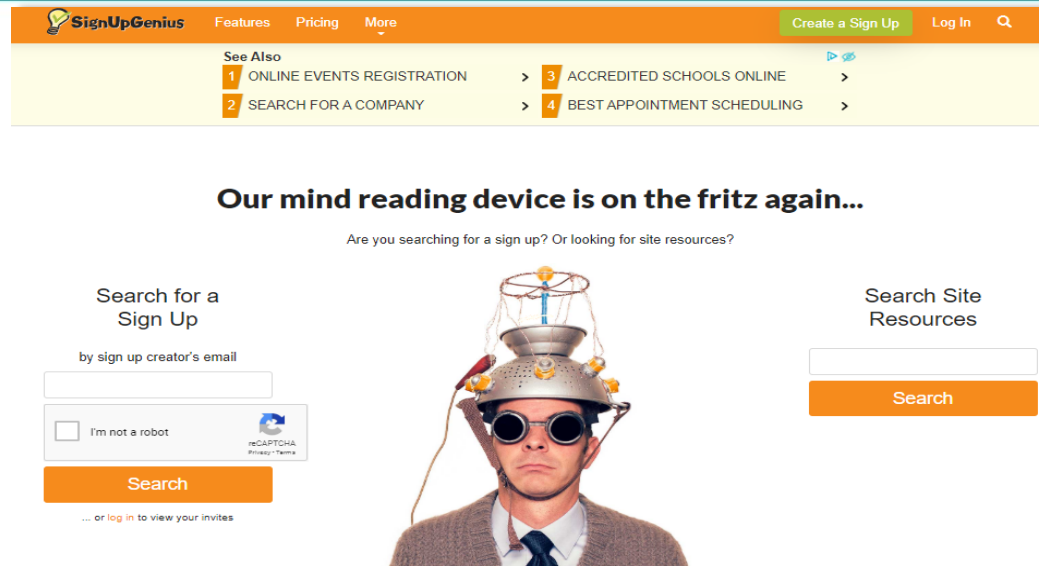


Recertification Testing- *Process*

Step #2- Recertification scheduling- Recertification notices shall be sent by OCHCA to the tester's home and email address approximately 30 days prior to expiration. Testers must notify OCHCA of an address or other contact information change immediately. After you receive the reminder notice, follow the instructions to sign up for an appointment on www.signupgenius.com/findasignup

- *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.*

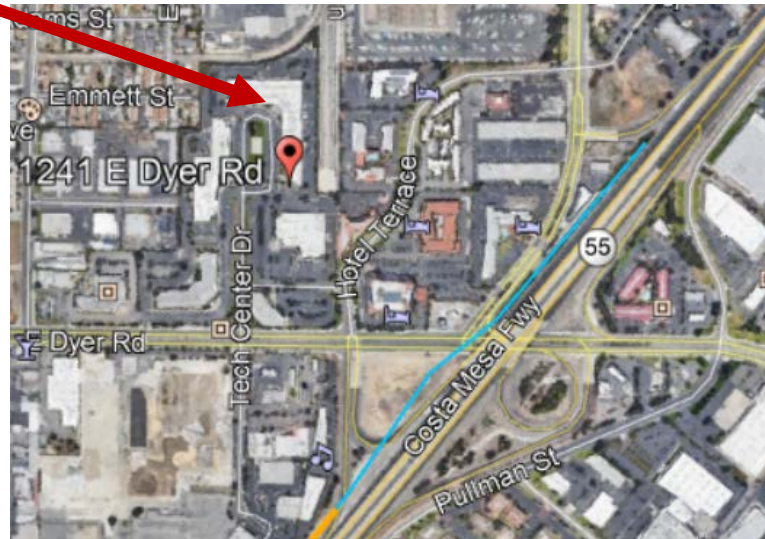
Recertification- *Process*



- Confirm Sign-Up Genius Website registration for practical exam.
- www.signupgenius.com/findasignup
- Enter: ocbackflowtests@ochca.com
- Click: I am not a robot.
- Click: Search.
- Select an available date & time and click save.

Recertification- *Process*

Step #3- Day of your test- Your test will be held out the OCHCA building at 1421 E Dyer Rd, Santa Ana CA 92620



Bring your method to pay, ID, proof of refresher class, test gauge, and proof of gauge calibration.

Recertification- *Process*

Step #4- Go in the Lobby-

Arrive at least 10 minutes early for testing.

- Sign-in on the backflow tester sign-in sheet.
- Obtain a parking pass and place in your vehicle (if you have not brought one with you).
- Review Code of Conduct document.
- Complete application.
- Pay for the backflow refresher recertification
- Wait until your proctor gets you from the lobby

Recertification- *Process*

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.



Recertification- *The Practical*

Step #6- Practical Test

- 1 hour to do 2 parts to pass
 - Unlimited attempts within an hour
- Successfully test all 4 devices per USC 10th 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)
- Troubleshooting questions
 - Correctly answer all 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 2 years.
- If the OCHCA certification is expired more than 1 year, but less than 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 2 or more years, the tester will need to pass a 40-hour training course, the written exam, and the hands-on practical exam.

*Tester fee payments apply to all of the above scenarios.

Recertification- *After you pass!*

Step #7- After the Practical-

- After passing 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* 😞

Alternate Step #7- After the Practical-

- You can test with OCHCA (3) three times during a (6) six 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 10th Edition!
- If you do not pass after the 3rd 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:

1. 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.
3. 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.
 5. All backflow reports must be submitted on proper forms. They must be legible and contain all appropriate information pertaining to the test.
 6. 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.
 7. 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@ochca.com and Erasmo Jacinto at (714) 433-6288 or email changes to EJacinto@ochca.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.

3. A tester must not remove, replace, or relocate a backflow device without the approval of the water purveyor or OCHCA.

Enforcement: *Reminders continued*

3. 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.
5. 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.
6. 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 HElmishad@ochca.com and Erasmo Jacinto at (714) 433-6288 or email changes to EJacinto@ochca.com.

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 inquiries 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 10th 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

FREQUENTLY

QUESTIONS

ASKED

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
Erasmio 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 \$900.00 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

H2O 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 Llenas #3321
(714) 709-6215

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

Anaheim

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 Nofziger #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) 316-8248
(310) 487-9909

AAA Companies
Aaron Dricker #2847
(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
Walid Makhlof #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>

FAQs- Recertification

- If you sign up for a 9:00-10:00 AM appointment, when should you arrive?

In this example, you should arrive at least 10 minutes before your appointment begins at 9:00, so before 8:50 AM. Your appointment will run from 9:00-10:00 AM. Please try to be on time, we are typically booked solidly all day. If you are late for your appointment, we may have to reschedule you to a different time or day. Please contact us if you are unable to make your appointment when it is assigned.



FAQs- *Recertification*

- 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****

FAQs- *Recertification*

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

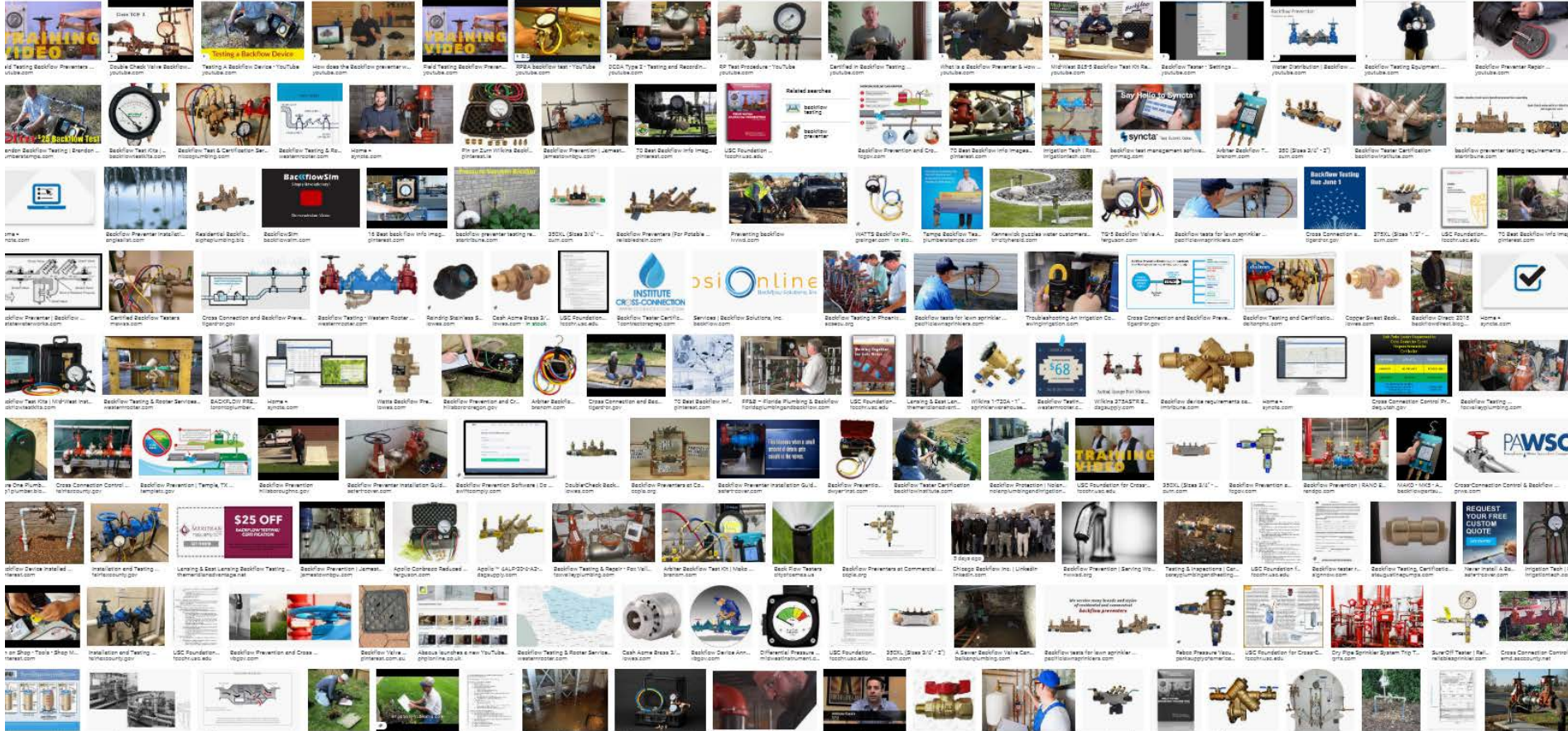
You can no longer take the hands on test for recertification until you have attended a backflow prevention device tester update seminar.

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 attend the OCHCA seminar.

FAQs- Recertification

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



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

IX. Coming Soon- *Backflow To The Future!!*



Health & Safety Code 116407 – mandates for the creation of a ***policy handbook*** for backflow protection and cross-connection control, with potential revisions to Certification Requirements for backflow testers.

Coming Soon

Cross Connection Control Policy Handbook



- The Division of Drinking Water of the SWRCB is developing a handbook to be released in 2020/2021, 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.

Quiz Time!

➤ [Click Here for the Quiz!](#)

- 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%.
 - Submit the quiz via the SUBMIT button or email back to OCBackFlowTests@OCHCA.com.

**Thank you
and stay safe!**