

**Before you begin the actual installation of NOV8iON's WG-350 under-counter system, please consider the following:**

- By following these easy to follow 7 step instructions, you are simply putting the highest quality USA Made NOV8iON under-counter water processing system "in-line" between your cold water shut-off valve and your sink, and even possibly your refrigerator water line too.
- Following these installations should require even a novice DIYer less than 30 minutes, after you remove the contents from your under-sink cabinet space.
- It is **NOT** necessary for the WG-350 to be mounted to any vertical wall under your sink, although this can easily be done by using 2 screws to mount the filter head to a vertical surface. This extra step is not necessary and instead you can just allow the system to rest on the horizontal surface under your sink. It takes up very little space and usually makes it easier for future cartridge change-outs which are very infrequent and require no tools to complete if the unit freely stands on your horizontal cabinet floor.
- In most cases your new NOV8iON WG-350 will include our DIY Kit that includes all necessary additional extra hardware to install this system. The DIY Kit is designed to fit over 90% of all under-counter sink applications in the US and is included to prevent you from having to make a trip to the hardware store to find necessary parts to install your US Made system.
- If your home includes relatively modern plumbing including most standard shut-off valves, our DIY Kit is all that you should need for a complete watertight and very robust and frustration-free installation.
- Based on our feedback from non-expert customers who follow these instructions **you can expect to this entire installation to take less than 30 minutes to complete.**
- This manual, like all NOV8iON products was designed to make this installation simple, frustration free if you follow these simple instructions in order. **It should also eliminate ANY trips to the hardware store for extra components when our DIY Install Kit is included in your purchase and is highly recommended.**
- If you need additional information to help with your installation, including instructional videos on how to ensure your new system filters both your sink's cold water as well as your refrigerator and ice maker please visit [nov8ion.com/WG350/installation](http://nov8ion.com/WG350/installation).
- This installation guide includes many pictures along with the written installation instructions to make it easier to understand. Please use them
- **Should you have ANY frustrations or suggested improvements on improving this installation guide please send them directly to the author of by email to [stevegough@nov8ion.com](mailto:stevegough@nov8ion.com). Or call our home office at 270-761-7283.**
- **We want to make this installation a very good and rewarding experience for you.**

**I. Preparation for Installation: (See Figure 1 of instruction pictures)**

- 1) Determine which undercounter shut off valve is the cold-water side  
This can be done by turning on the hot water on your kitchen sink, let it run and get hot enough to heat up the shut off valve it flows through, then feel the outside temperature on both shut off valves under your sink.  
The shut off valve that doesn't warm up to the touch is the cold water shut-off valve.
- 2) Once the cold shut off valve has been identified, shut this valve off to prevent further pressurized water flow during the installation process.
- 3) After shutting off the cold water shut-off valve, **(Figure 2, #1)**, open the cold water on your sink faucet to remove excess pressure built up in the line to minimize water spillage during the rest of installation process.

**You're now ready to begin installation**

**II. Connect the output of filter to cold water side going to the inlet side of the faucet**

- 1) Connect the compression, (or other), to NPT thread conversion fittings to both the input and output side of the filtration unit head and secure both tightly. (see note 1)
- 1) 2.) Disconnect the nut on the cold-water side output of the cold water shut-off valve, (usually on top of the shut-off valve). **(See Figures 2 & 3 of instruction pictures)**
- 2) 3.) Thread the nut, (from #2 above), onto the male compression fitting thread converter into the "output" side of the under-counter filter head and secure it tightly. **(See Figure 4, (#1) of instruction pictures)**

Note: PTFE tape may be required on all male fittings to insure a water-tight seal once under pressure. **For systems with NOV8iON's DIY-kit included, this step has already been completed for you and you can move onto the next step.**

**III. Connect either end of the 3/8" water line, (included in DIY Install Kit), to the inlet, (stamped "IN"), on the WG-350 Filter Header, (see Figure 4, #2)**

- 1) Turn hex nut clockwise onto the 3/8" FIP/Compression male inlet adapter with only your fingers first to assure the threads are properly aligned and no cross threading occurs.
- 2) Further tighten inlet nut using either 5/8" wrench, channel locks or your tool of choice to insure a watertight seal. Warning, overtightening with brute force or under-tightening can cause leaks...Please just stop when the pressure on the wrench applied indicates it's tight enough.

**IV. Connect the opposite side of the water line, (Figure 4, #3) to of the cold water shut off valve under the counter, (Figure 5, #1)**

- V. Turn hex nut clockwise onto the 3/8" FIP/Compression male inlet adapter with only your fingers first to assure the threads are properly aligned and no cross threading occurs.
1. Further tighten inlet nut using either 5/8" wrench, channel locks or your tool of choice to insure a watertight seal. Warning, overtightening with brute force or under-tightening can cause leaks...Please just stop when the pressure on the wrench applied indicates it's tight enough.

**VI. Insure WG-350 filter head and cartridge remain tightened securely after handling throughout the installation process. ((insert figure #7, yet to be taken))**

1. Hold filter head, (top ¼ of unit), securely in your left hand.
2. Using your right hand take the cartridge, (bottom ¾ of unit) and turn it counter-clockwise, (when looking downward at top of unit), until it locks tight at a hard-stop with the unit's label centered to the front and center of the inlet & outlet lines.

**VII. Test Installation for leaks**

- 1) Turn cold water shut-off valve to on/flowing & turn on the cold water of the sink faucet on to clear out air in lines.
- 2) Once water is flowing without air bursts close your sink valve to prevent water flow and put pressure on the fittings you just connected.

**Note: Most leaks will show up immediately and are obvious to correct quickly if they should happen. But very small leaks are still a possibility even if you're a plumbing genius...So it's good advice to check your "leak free" installation work quality for 24 hours or more.**

**VII. Congratulations! Now Flush Entire System**

- Keep cold water running on cold for 4-6 minutes to flush the system.  
-Repeat step 1 until water becomes completely clear if necessary
- **Enjoy the fact that you, your family, friends and everyone else that drinks this filtered water will benefit from it for a healthier and extended lifetime.**
- **Also, know that your purchase of an NOV8iON Water system will help fund water filtration systems to 2nd and 3rd world countries whose water is killing them much faster than yours was.**

## Typical “under-sink” configuration

1. Cold Water Shut off valve. Typically on right hand side. Typically with 3/8” FIP/compression thread fitting requiring a 5/8” nut to remove cold water hose going to sink and possibly refrigerator line.
2. Typical 3/8” cold water line going from cold water shut-off valve to kitchen sink faucet. Usually attached to cold water valve with a single 5/8” compression thread nut
3. Hot Water shut-off valve which doesn’t require anything for filtration installation other than positive identification that it indeed is NOT the cold water shut-off valve.

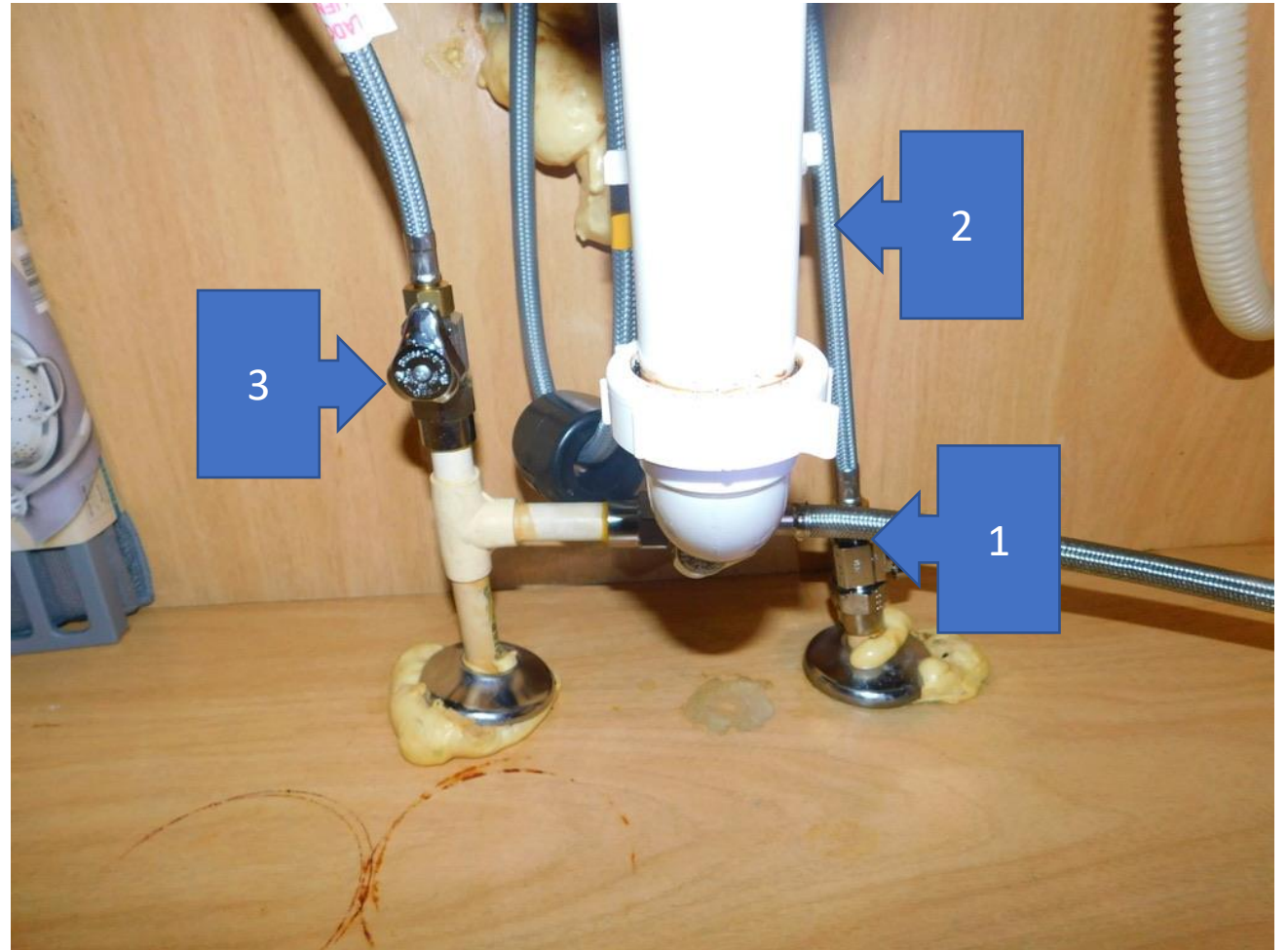


Figure 1



# Cold Water shut-off valve and detachable cold-water line.

1. Cold-water shut-off valve: Many types and styles, but most are turned off by rotating the valve knob clock-wise, (facing valve), by either  $\frac{1}{4}$  turn or multiple turns until you feel a hard stop.
2. Compression nut that connects cold-water shut-off valve to the kitchen sink valve and possibly also to the refrigerator water inlet. Typically a  $\frac{5}{8}$ " nut that can be removed by rotating the nut counter-clockwise, (facing top of nut).
3. Original  $\frac{3}{8}$ " line connecting cold-water shut-off valve to the sink faucet and possibly your refrigerator

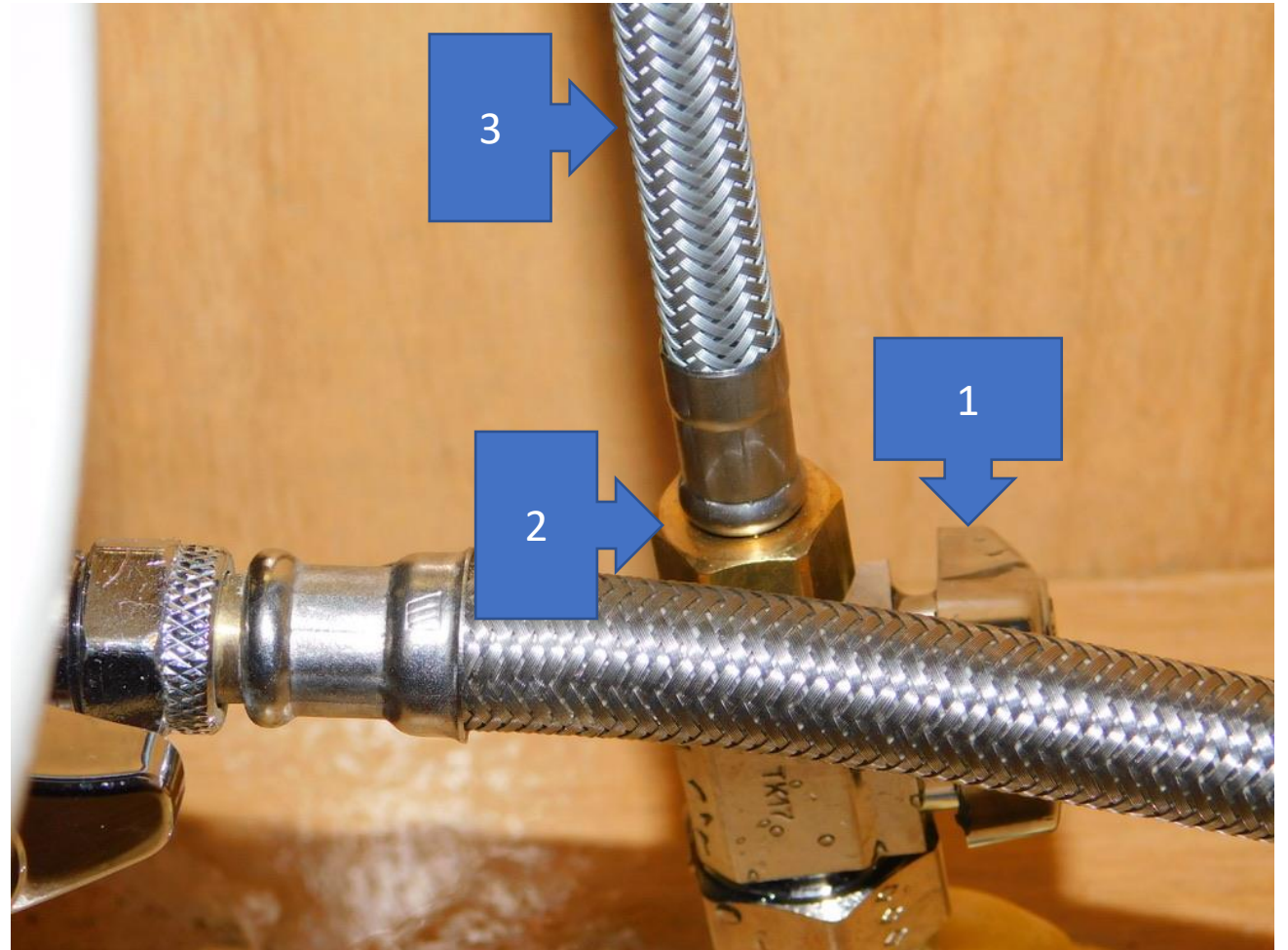


Figure 2

## Cold-water line removed from cold-water shut-off valve.

1. Cold-water line to sink once removed from cold-water shut-off valve. This line will ultimately be attached to the WG-350's outlet via a lead-free brass thread converter that is included in NOV8iON's WG-350 DIY-Pro installation kit and in most cases is "pre-installed" at our factory in Murray, KY.
2. Cold-water shut-off valve line male threads now exposed for connection to inlet side of WG-350 water filter via 12" 3/8" FIP/compression water line supplied in WG-350 DIY-Pro Installation kit, usually included.

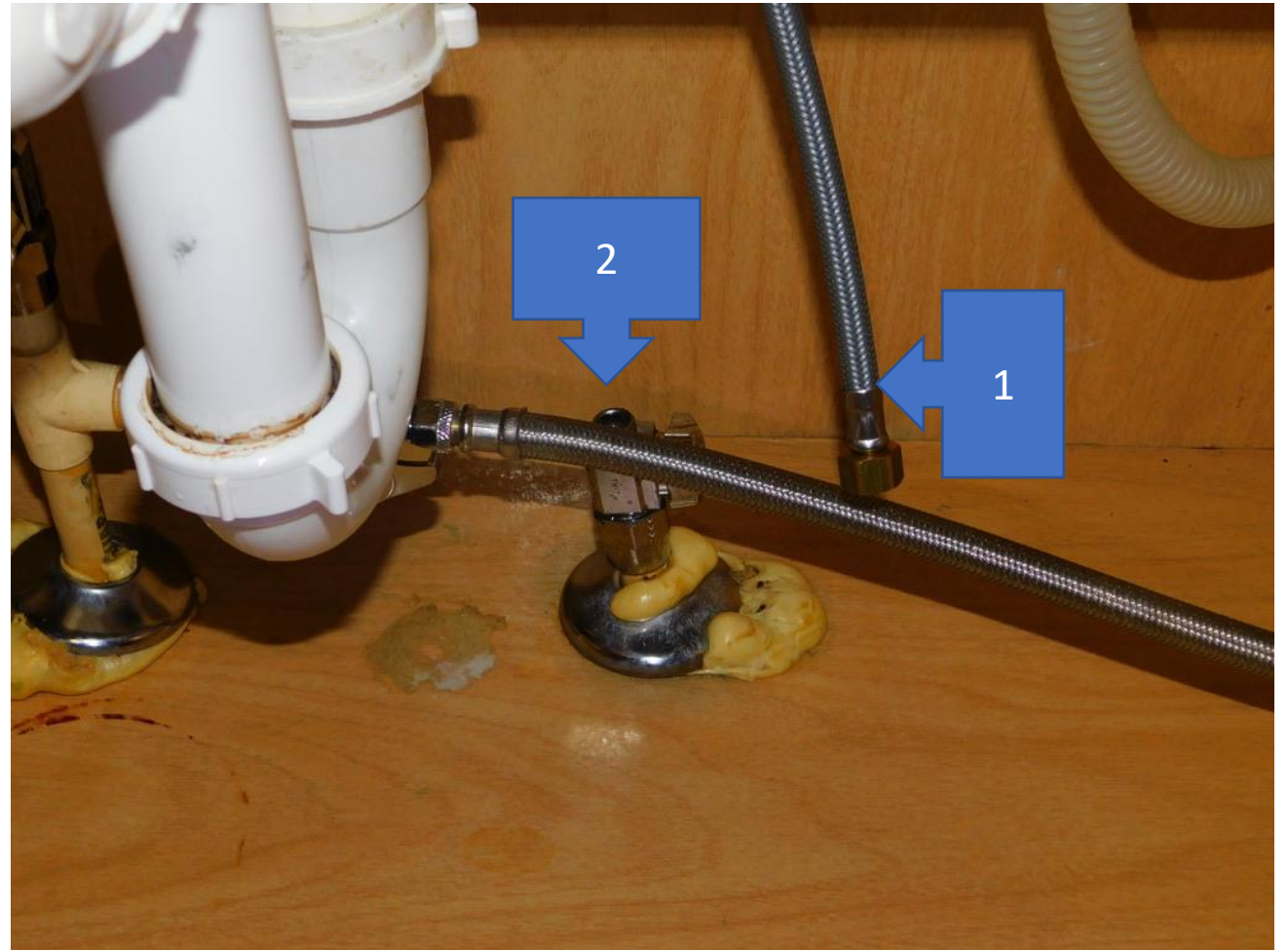


Figure 3

# Securing water-tight connections to WG-350 outlet and inlet

1. Your original kitchen sink's cold water line secured to the OUTLET of the multi-stage WG-350 system via the lead-free brass thread converter included in your WG-350 DIY-Pro Installation Kit. See Note 1 below.
2. The new inlet water line securely connected to your multi-stage WG-350 line via the lead-free brass thread converter included in the WG-350 DIY-Pro Installation Kit. See Note 1 below.
3. The cold-water shut off valve connector

Note 1: Secure these connections tightly, but do not overtighten them with too much force to avoid damage and potential future water leaks.



Figure 4



# Secure last connection of Filter inlet to cold- water shut-off valve

1. Secure the filter inlet water line provided in our DIY-Pro Installation Kit to the cold-water shut-off valve. See Note 1.

Note 1: Secure these connections tightly, but do not overtighten them with too much force to avoid damage and potential future water leaks.

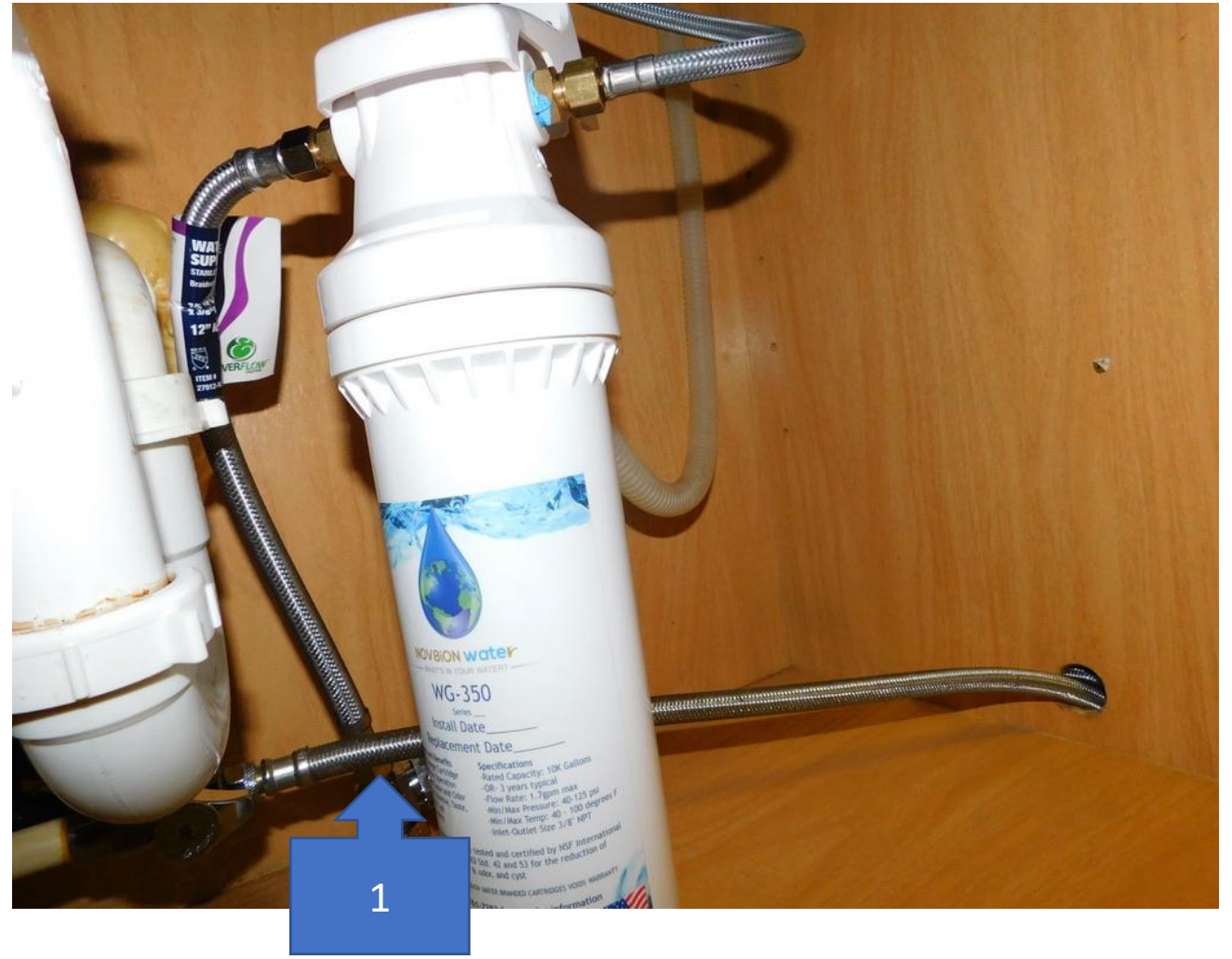


Figure 5



## Place the WG-350 unit wherever you like

- The unit does NOT require wall mounting and can rest anywhere on the floor under your counter. Just don't crimp the flexible inlet and outlet cold-water lines or your water pressure could be compromised.
- If you choose to mount the unit on a vertical wall, (not necessary), It should be mounted in a vertical position that allows a minimum of 3" from the bottom of the cartridge to the floor to prevent removing the mount between the infrequent cartridge replacements required.



Figure 6