AIR SAMPLING WITH SUMMA CANS AND REGULATORS

***DO NOT APPLY LABELS OR WRITE DIRECTLY ON CANISTERS!**

**** YOU WILL NEED (1) 9/16TH INCH WRENCH. WE DO NOT RECOMMEND ADJUSTABLE WRENCHES BECAUSE THEY CAN EASILY LOOSEN SLIGHTLY AND STRIP THE FITTINGS.**

SAMPLING INSTRUCTIONS FOR UN-ASSEMBLED, THREADED CANISTERS

1. Place canister in area of sampling and select the appropriate regulator for your sampling event.
2. Verify the valve is securely closed and remove the dust (brass) cap from can - the 9/16in wrench will fit the dust cap. **{Helpful Hint}** Only the dust cap is to be removed. The valve is to remain tight and secure. Any adjustment to the canister valve may cause a leak.
3. Using your hands, attach the regulator to the canister, finger-tightening the nut onto the canister. You should be able to thread the nut - with minimal resistance – for multiple turns. **{Helpful Hint}** If there is resistance to tighten from the start, DO NOT continue tightening as you could strip the threading; loosen and verify proper seating before proceeding to finger tighten.
4. Once the regulator is finger tight onto thread adapter of the canister, tighten the regulator with the 9/16in wrench. Tighten approximately 1/4in turn with the the wrench, or until tight. **{Helpful Hint}** Over-tightening may cause leaks. There should be no 'play' at the connection when fully secure.
5. If there is a leak check to be performed on the canister/regulator setup prior to sampling, perform this check now - prior to removing the brass caps from the regulator. If not, proceed to step 6.
6. Remove brass caps from regulator using 9/16in wrench. Open the valve approximately 1 full turn to begin sampling and immediately check the gauge to notate the initial vacuum reading. If you hear a hissing or see the gauge pressure dropping quickly, close promptly and check fittings to ensure they are snug. Note: Gauges are for approximate readings and are checked to be +/- 2 of actual pressure. **{Helpful Hint}** It is possible to loosen the valve too far, causing a leak at the valve.
7. After the sampling time has elapsed, note the final pressure. Close the valve and remove the regulator using the 9/16in wrench.
8. Replace the dust cap on the canister using the techniques described for the regulator on in steps 3-4.
9. Ensure the chain of custody and canister tag are completed with all project, sample, and analysis information. Place cans and regulators back in box similar to how they were packed and prepare to return them to the lab.

SAMPLING INSTRUCTIONS FOR UN-ASSEMBLED, QUICK CONNECT CANISTERS

1. Place canister in area of sampling and select the appropriate regulator for your sampling event.
2. Slide the female microQT fitting sleeve up the regulator. Place the regulator firmly on the male microQT located on the canister and release the sleeve to connect the regulator. If dust cap was removed prior to step 2, sampling has begun. Note: If the dust cap remains, you can proceed with your leak check of the system. After completion of the leak check, removal of the dust cap will trigger sampling to begin.
3. After the sampling time has elapsed, note the final pressure (typically, 5 in Hg of mercury or less). Close the valve (if equipped) and remove the regulator by sliding the female microQT fitting sleeve away from the canister and off the male microQT fitting. Sampling is complete. Note: Gauges are for approximate readings and are checked to be +/- 2 of actual pressure.
4. Ensure the chain of custody and canister tag are completed with all project, sample, and analysis information. Place cans and regulators back in box similar to how they were packed and prepare to return them to the lab.