



## Connecting and leak checking an Alicat Scientific flow instrument

**The items you will need for to change the position on any small valve Alicat controller:**

1. Alicat inline filter
2. Teflon tape
3. Appropriately sized fittings
4. Adjustable wrench
5. Properly sized open-ended wrench

### **Connecting and leak checking an Alicat Scientific flow instrument:**

To install fittings, first remove any red plugs from the process connection ports. For each fitting wrap the Teflon tape around the threads in a clockwise fashion as seen looking towards the threaded end. Two to three complete wraps should be sufficient for most fittings. It is very important to leave the first few threads uncovered so that no tape can be sheared off and end up inside the flow meter. (In the case of the 1032 to 8th inch NPT adapter, no Teflon tape is recommended.)

Screw in the adapter clockwise until finger tight. Do not use wrenches for this application.

When installing a factory supplied inline filter, follow the general procedure for Teflon tape application. Then screw the filter clockwise into the inlet of your instrument. Tighten the filter using two wrenches, one to hold the inlet port block and the other to rotate the filter until tight. Do not use the black valve assembly as leverage when tightening. Take care not to over tighten this filter or any fittings used on your Alicat product.

When installing a fitting into a port without a valve assembly, you can grip the instrument in one hand while tightening the fitting. Again avoid using the valve assembly for a leverage point as damage may occur.

When connecting tubing to your fitting, follow the manufacturer's recommended installation instructions.

Once all of the connections are made and the unit is pressurized it, is a good idea to check for leaks. Liberally apply a soap and water solution to the fitting area. Bubbles will indicate that a leak is present and must be dealt with. Once the adjustment has been made, retest the connection to make sure no bubbles are present under pressure