

# AQL TEST KIT

The compressed air AQL TEST KIT, rental sampling version, contents and summary procedures are as follows: Detailed sampling instructions are attached.

**1** Sampling block with CGA adaptor for connection to compressor discharge line

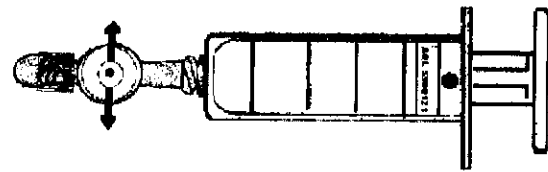
- Purge compressor and fill line
- Connect sampling block to fill line



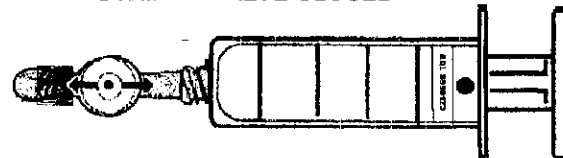
BLOCK

**2** 20 mL syringes with 1-way valve for collection of your air source gases, syringe ID begins with "S"

- Connect closed syringe onto top block sample port
- Open fill valve, set pressure to 500 psi
- Open 1-way syringe valve
- Increase pressure to 1000 psi
- Purge syringe 2 times by pushing plunger in
- Increase pressure to 1500 psi
- Closed 1-way syringe valve
- Remove syringe from sampling block



SYRINGE VALVE CLOSED



SYRINGE VALVE OPEN

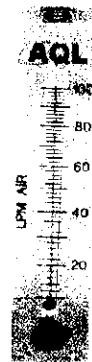
**1** Flowmeter with fitting for measuring sample flow through filter cassette

**2** Filter Cassettes for condensed oil sampling, includes caps on both ends

- Remove caps from filter
- Connect intake side of filter with white fitting to side block sampling port
- Connect flowmeter into other side of filter  
Keeping flowmeter in vertical position (optional tubing can be used by changing fitting on flowmeter)
- Open fill valve and increase pressure until an optimum flow of 50 LPM is maintained on flowmeter (25-75 is OK)  
Read flowmeter at eye level
- Begin timing test. Filter air at least 10 minutes
- Close system valve and disconnect filter & flowmeter
- Replace caps on filter ends
- Record LPM, minutes filtered, and other info on data record
- Send filter cassette and syringe to AQL for testing



CASSETTE



FLOWMETER

**NOTE:** This rental kit is provided for sampling one source sample. Only one 20 mL syringe and one filter cassette are required. The second syringe & filter are extra and provided as back-up supplies. Document on the Data Record only the ID numbers for the syringe and filter used for your sampling. RETURN ALL MATERIALS.

Depending on the configuration of your compressor and bottle fill station safety features you may also require a check valve for use during syringe collection of the gases or a piece of rubber tubing for use with the filter cassette. Contact AQL for details.

If you arranged with the laboratory to also collect a simultaneous sample of the ambient air to determine background atmospheric air quality a smaller 10 mL syringe with an ID beginning with "A" will be included.

CALL AQL – (630) 830-4018 WITH ANY QUESTIONS