

## TESTING THE UFR ON TEST BENCHES

Test benches are typically not setup with a system suitable for testing the UFR. Most test benches require some modifications to make conditions similar enough to real world conditions that the UFR performs properly. This increases the likelihood of problems during testing. It is recommended that the UFR be shown with the demo unit prior to placing it on the test bench. It also is recommended that the salesman be present for the test and pictures are taken of the setup.

Below is a list of items to assist with work benches:

- The lines for the test bench must not be larger than  $\frac{3}{4}$ ". A 1" inlet line is permitted as long as it is reduced to  $\frac{3}{4}$ " before the meter and UFR connection.
- Only use the UFR with  $\frac{5}{8}$ ",  $\frac{5}{8} \times \frac{3}{4}$ " and  $\frac{3}{4}$ " meters. Do **NOT** use with 1" meters.
- Install the UFR in the test bench. Often a 10 series MSR is the best way to match the meter laying length but is not a requirement.
- Make certain the type of UFR matches the meter type. (i.e. if a volumetric meter is used, use a "V" UFR. If a multijet meter is used, use a "M2" UFR.) Using the wrong type of UFR for the meter will cause an accuracy problem if the test bench measures the leak.
- The test bench must be able to maintain a constant inlet pressure. Fluctuation in the inlet pressure during testing will provide inconsistent results.
- An accumulator hose at least 50 (preferably 100) feet long must be present after the UFR.
- Use the drippers provided in the demo unit for the leak. Experience has shown problems with ball valves, plug valves and needle valves providing leaks that change in rate over time.
- Be sure to get all air out of the system prior to testing.

Contact the office with any problems you may have with the conditions above or with any tests performed.