2.27 HYDROSTATIC TEST

Procedures:

This test does not apply to storage vessels that have been stamped with ASME stamp and are intended to operate at a working pressure not less than on the ASME stamp.

1. For this test, it is necessary to have just the tank without the outer jacket.

2. Fill tank with water at 70 F being sure that there are no air pockets in tank.

3. Measure the tank circumference at 12-inch intervals. This is typically done using a wire that is tightly wrapped around the tank. The wire is marked to indicate the circumference of the tank prior to the test. Any changes in the circumference of the tank as a result of the test can be measured from this base marking.

4. Also, place extensometers at both the top and bottom head.

5. Pressurize the tank up to 300 psi and hold pressure for 30 minutes. Leakage is not permitted.

6. After the pressure has been released, measure the circumference. The readings cannot vary by more that 0.2% of those taken prior to the test.

7. Read the extensometers at the top and bottom heads of the tank. The measured deflections cannot vary by more than 0.5% of the tank diameter.

2.30 BURNER DURABILITY

Procedures:

1. Conduct the test at increased inlet test pressure.

2. Ignite the burner at the orifice and allow it to burn in the venturi for 30 minutes. If it will not ignite, reduce the inlet pressure to the point where it will light.

3. After the 30 minutes of operation remove the burner and observed for any distortion or appreciable damage.