

## Maximum Allowable Operating Pressure 192.619, 621, 623

On LP liquid line piping, the MAOP must be established at or above 350 psig.

Container piping upstream of the 1st stage regulators must be established at or above an MAOP of 250 psig.

For plastic pipelines the MAOP must not be established at a pressure higher than 30 psig as required by NFPA 6.8.1.1(3).

The lines downstream of the high pressure or 1<sup>st</sup> stage cut shall be established at an MAOP of 10 psig, or at a pressure that will maintain the required pressure and flow in the distribution lines, but may not operate at pressures that could cause re-liquefying in the lines or exceed the pressure limitations of any downstream piping or components.

Regulators and overpressure protection devices must be installed to ensure the system maintains a safe MAOP operating pressure.

Records showing MAOP calculations, material verification, and qualifying pressure testing for each system segment must be maintained. Example documentation for recording this information is located in Appendix C.

## Pressure Test 192.503, 507, 511, 513

Except for single components stamped and rated for operation at a specified pressure by the manufacturer, the company must not operate a new segment or return to service a segment of pipeline that was replaced or relocated until it has been tested to substantiate MAOP. All potentially hazardous leaks must be located and eliminated during pressure testing. Testing must be conducted in accordance with Part 192 requirements. The test medium used may be air, liquid, inert gas, and must be compatible with the pipeline material.

[Except for service lines and plastic pipelines, piping with an MAOP above 100 psig must be pressure tested to 1.5 MAOP and maintained at or above the test pressure for 1 hour. The test must be conducted in a manner that will ensure discovery of all potentially hazardous leaks in the segment being tested.

Except for service lines and plastic pipelines, piping with an MAOP below 100 psig must be leak tested to 90 psig and held for 15 minutes to ensure that there are no leaks.

For service lines other than plastic, lines operating up to 40 psig MAOP must be pressure tested to 50 psig and held for 15 minutes to ensure that there are no leaks.

For service lines other than plastic, lines operating above 40 psig MAOP must be tested to 90 psig and held for 15 minutes to ensure that there are no leaks.

Plastic pipelines must be tested to 50 psig and held for 15 minutes to ensure that there are no leaks.

During plastic pipeline testing, the pipe temperature may not exceed 100°F]

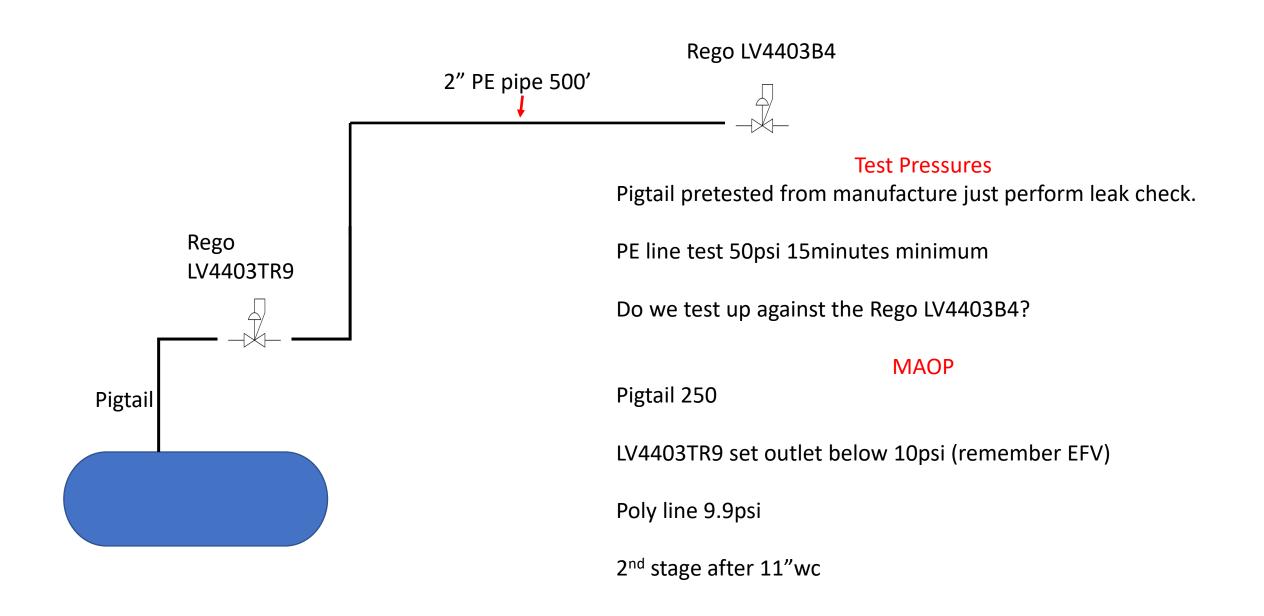
## **Rego Regulators used**

1586VN 3-30 psi Outlet Delivery 7,500,000 BTU

4403B4 11"wc Outlet Delivery 935,000 BTU

4403TR9 10psi Outlet Delivery 2,500,000 BTU

5503B8 11"wc Outlet Delivery 1,600,000 BTU



## **Test Pressures**

Steel manifold tested to 375psi 1 hour.

