Quick Reference Guide For Vaporizers

Make sure you are thoroughly trained before you attempt any vaporizer installations. Improper conditions or procedures can cause accidents resulting in property damage and personal injury.

Vaporizer Liquid Line Sizing

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<th>GPH</th>
<th>25'</th>
<th>50'</th>
<th>75'</th>
<th>100'</th>
<th>150'</th>
<th>200'</th>
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</tbody>
</table>

1. Equivalent pipe lengths must be added for restrictions such as pipe fittings and valves, then added to total feet of pipe.
2. Chart is based on a pressure drop of 1 PSI.
3. Consult engineering for larger vaporizers or longer pipe runs.

ALWAYS FOLLOW ORIGINAL EQUIPMENT MANUFACTURER’S GUIDELINES.

Typical Installation - Principal Features and Operating Characteristics

1. Equipment, piping and installation must be in accordance with provisions of NFPA58, and all applicable state, provincial and local codes.
2. Liquid pump may be required to provide sufficient pressure to inlet of vaporizer during conditions of low tank pressure.
3. Outlet pressure regulator should be no more than 24 inches from vaporizer outlet and located at or above centerline of vaporizer outlet.
4. Set tank pressure regulator 2 PSI lower than outlet pressure regulator.
5. Do not install a separator, dripleg or other liquid trap upstream of outlet pressure regulator.
6. Regulator outlet must be adjusted to a pressure below the vapor pressure of the saturated LP-Gas at lowest operating temperature or vapor may reliquefy in downstream piping.
7. Liquid piping system must allow for occasional reverse flow toward supply tank to prevent excessive pressures during operation.
8. Use proper excess flow for piping size transitions.

Why Use a Vaporizer?

• Pressure in the tank drops too low during cold weather.
• Storage is not big enough to supply the load under all conditions.
• Space restrictions do not allow for installations of additional tanks.
• Regulations will not allow a big enough tank or enough storage to handle the load with natural vaporization.
• Having a vaporizer eliminates recondensation of vapor to liquid in the supply lines.
• The storage tanks do not need to be kept 60-75% full during cold weather.

Vaporizer Liquid Line Sizing

200 1" 1" 1" 1" 1" 1" 
400 1" 1 1/4" 1 1/4" 1 1/4" 1 1/4" 1 1/4" 
600 1 1/4" 1 1/4" 1 1/4" 1 1/4" 1 1/4" 1 1/4" 
800 1 1/4" 1 1/4" 1 1/4" 1 1/4" 1 1/4" 1 1/4" 
1000 1 1/4" 1 1/4" 1 1/2" 1 1/2" 1 1/2" 1 1/2" 

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REGULATOR INSTALLATION GUIDELINES

RECOMMENDED INSTALLATION

- Safety valve
- Pressure gauge 0-300
- Shut-off valve

NOT RECOMMENDED

- No isolation valve or pressure gauges.
- Regulator too far from vaporizer

ONE 40/40H VAPORIZER IS EQUAL TO ...

1,000 GAL.

FULL TANKS

- TANKS 10% FULL AT 40° F
- TANKS 10% FULL AT 20° F
- TANKS 10% FULL AT 0° F
- TANKS 10% FULL AT -10° F
- TANKS 10% FULL AT -20° F

DRIP LEG INSTALLATION GUIDELINES

RECOMMENDED CONFIGURATION

- Drip leg installed on low pressure side.
- Safety valve
- Pressure gauge 0-300
- Shut-off valve
- Pressure regulator

NOT RECOMMENDED

- Not ideal configuration of drip leg.
- Vapor will recondense at no flow condition

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