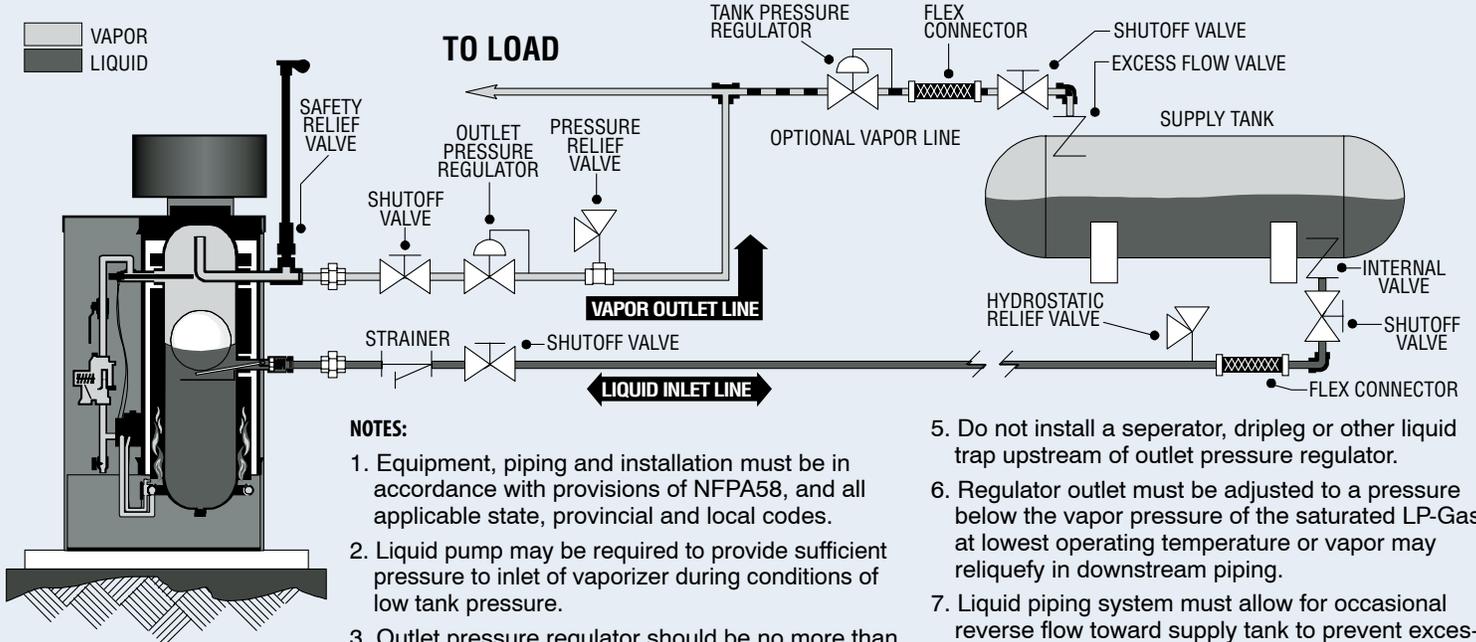


Quick Reference Guide For Vaporizers

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.

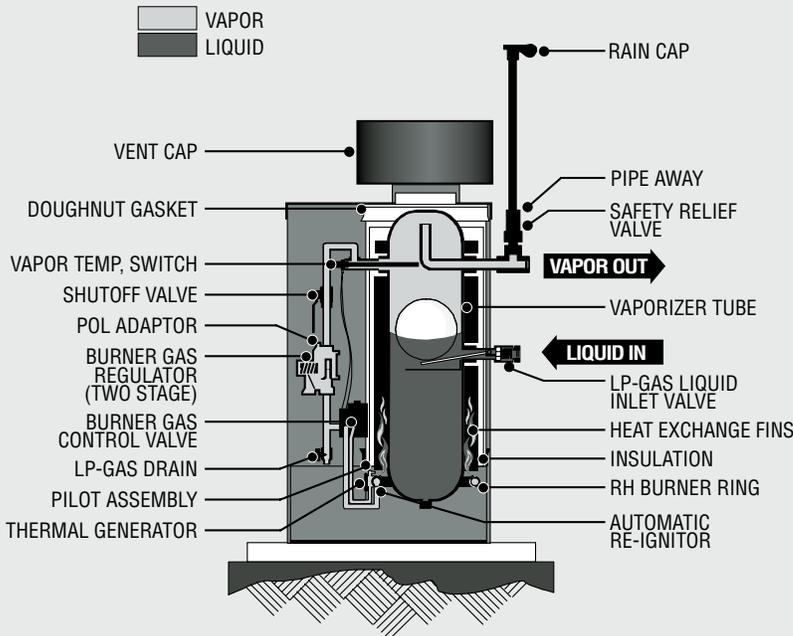
ALWAYS FOLLOW ORIGINAL EQUIPMENT MANUFACTURER'S GUIDELINES.

Typical Installation - Principal Features and Operating Characteristics



NOTES:

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, drileg 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

GPH	Distance - From Storage to Vaporizer, in Feet					
	25'	50'	75'	100'	150'	200'
50	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
80	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
120	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
200	1"	1"	1"	1"	1"	1"
400	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
600	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"
800	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
1000	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

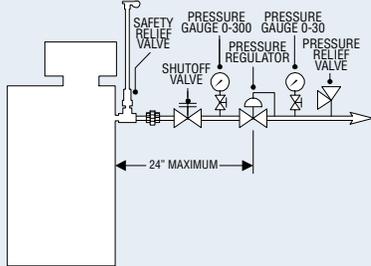
1. Equivalent pipe lengths must be added for restrictions such as pipe fittings and valves, then added to total feet of pipe
2. Chart is based on a pressure drop of 1 PSI
3. Consult engineering for larger vaporizers or longer pipe runs

Quick Reference Guide For Vaporizers

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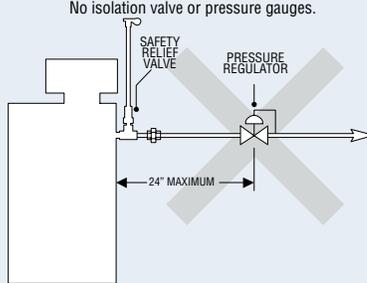
REGULATOR INSTALLATION GUIDELINES

RECOMMENDED INSTALLATION



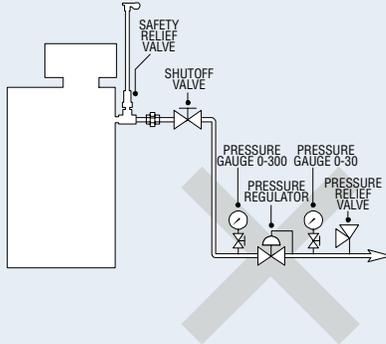
NOT RECOMMENDED

No isolation valve or pressure gauges.



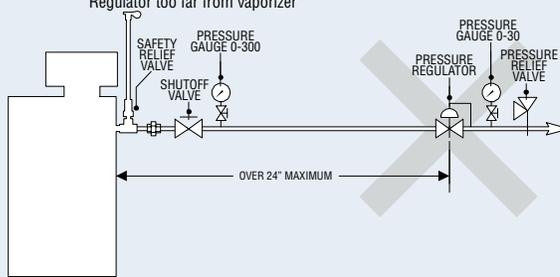
NOT RECOMMENDED

Regulator lower than vaporizer outlet.



NOT RECOMMENDED

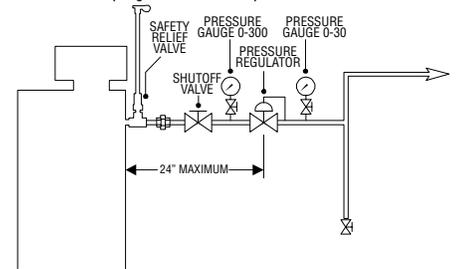
Regulator too far from vaporizer



DRIP LEG INSTALLATION GUIDELINES

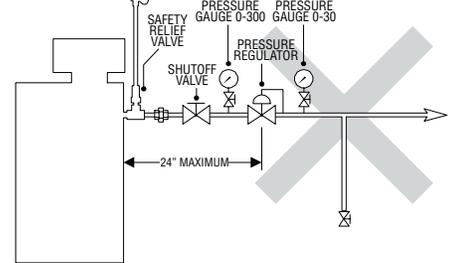
RECOMMENDED CONFIGURATION

Drip leg installed on low pressure side.



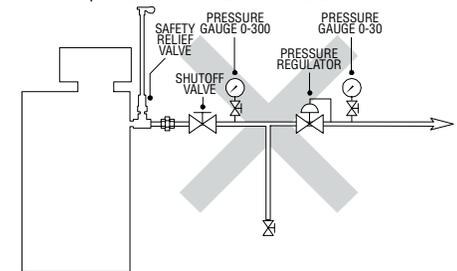
NOT RECOMMENDED

Not ideal configuration of drip leg.



NOT RECOMMENDED

Vapor will recondense at no flow condition



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



FULL TANKS



TANKS 10% FULL

AT 40° F



FULL TANKS



TANKS 10% FULL

AT 20° F



FULL TANKS



TANKS 10% FULL

AT 0° F



FULL TANKS



TANKS 10% FULL

AT -10° F



FULL TANKS



TANKS 10% FULL

AT -20° F

