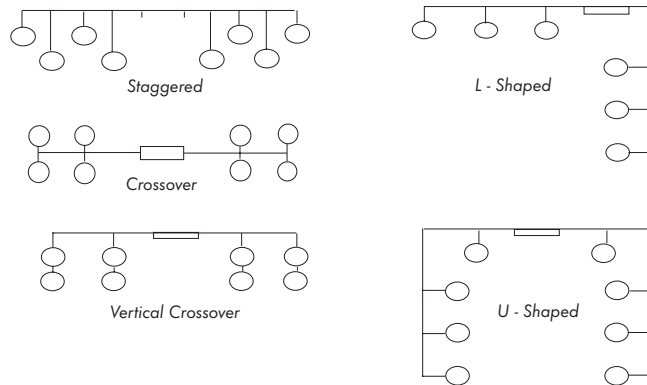
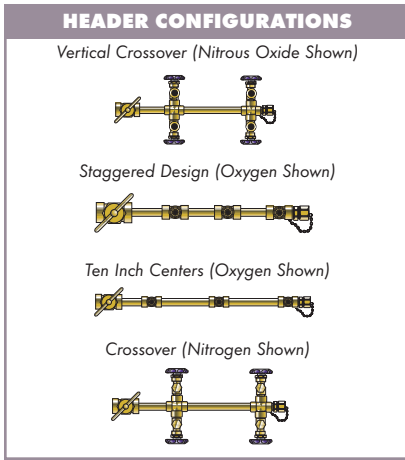


TECHNICAL INFORMATION

Western specializes in the manufacture and design of specific manifolds to customers' applications. If you have a requirement for a unique manifold system or a unit to fit into limited room dimensions, contact a Western supplier for a custom designed system.



Nominal extra charge for U and L shapes. No extra charge for Staggered, Crossover and Vertical Crossover styles.

Pertinent Facts for Cylinder Gases

Acetylene-C₂H₂ - CGA 300* (Commercial) CGA 510* (POL) Highly flammable. Gas is dissolved in Acetone. Withdrawal rate should not exceed 1/10th of cylinder capacity per hour for intermittent use or 1/15th of the cylinder capacity per hour for full withdrawal on a continuous basis. Garlic like odor. Cylinder pressure 250 psig. **

Air-CGA 346* Non-flammable, odorless, tasteless, colorless. Supports combustion. Cylinder pressure 2,200 psig. **

Argon-Ar - CGA 580* Non-flammable, odorless, tasteless, colorless. Inert gas. Cylinder pressure 2,200 psig. **

Carbon Dioxide-CO₂ - CGA 320* Non-flammable, slight acidic odor and biting taste. Physical state in cylinder gas (32%) and liquid (68%). Recommended withdrawal rate should not exceed 50 scfh per cylinder to avoid cylinder "chill down". Cylinder pressure 837 psig. **

Helium-He - CGA 580* Non-flammable, odorless, tasteless, colorless. Inert gas. Cylinder pressure 2,200 psig. **

Hydrogen-H₂ - CGA 350* Highly flammable, odorless, tasteless, colorless. Cylinder pressure 2,200 psig. **

Nitrogen- N₂ - CGA 580* Non-flammable, odorless, tasteless, colorless. Inert gas. Cylinder pressure 2,200 psig. **

Nitrous Oxide-N₂O - CGA 326 Non-flammable, no color. Slightly sweet taste and odor. Physical state in cylinder gas (32%) and liquid (68%). Recommended withdrawal rates should not exceed 50 scfh per cylinder to avoid cylinder "chill down". Supports combustion. Keep away from grease and oil. Use only with equipment cleaned for oxygen service. Cylinder pressure 745 psig. **

Oxygen-O₂ - CGA 540* Non-flammable, odorless, tasteless, colorless. Supports combustion. Beware of "heat of recompression". Keep away from grease and oil. Use only with equipment cleaned for oxygen service. Cylinder pressure 2,200 psig. **

Propane-C₃H₈ - CGA 510* Highly flammable, no color. Natural gas smell. Physical state in cylinder is both gas and liquid. Cylinder pressure is a constant 109 psig ** until all liquid is vaporized. Recommended withdrawal rates should not exceed 100 CFH for a 100 pound cylinder.

* CGA - Compressed Gas Association

** Standard large cylinder at 70 degrees Fahrenheit.

Pertinent Facts for Portable Bulk Containers

Typical Vaporization Rates - Nitrous Oxide 80 scfh
Carbon Dioxide 110 scfh
Argon, Nitrogen, Oxygen 375 scfh

Outlet Pressure - Older models: Typically 125 psig. For use with Western LC series. Newer models: 250 psig. For use with LCHP series.

Evaporization Rate - 1% to 3% per day will vent to atmosphere.

Temperature - Vaporized gas is extremely cold, typically - 300 degrees Fahrenheit.

Western LC & LCHP manifolds are equipped with cryogenic regulators. This ensures no regulator freeze up, long regulator seat life and high flow rates.

