

Matrx™ Single Stage Oxygen & Nitrous Oxide Regulators *Safety and Operation*



WARNING

Read and understand the following safety instructions before attempting to operate this regulator. If you do not understand these instructions, contact your dealer.

1. Oxygen is not flammable by itself; however, all materials which burn in air will burn much more rapidly in the presence of oxygen. Oil and or grease become highly combustible in the presence of oxygen! Use no oil, grease or any other petroleum-based or flammable substance on or around oxygen equipment.
 2. DO NOT allow oxygen or nitrous oxide equipment to become exposed to fire, sparks or other possible sources of ignition.
 3. DO NOT use the regulator if oil or grease is present or if damage is evident. Have a qualified technician clean and or repair before use.
 4. Wipe dusty parts with a damp cloth. DO NOT submerge in the regulator in water. To disinfect the regulator, use isopropyl alcohol.
 5. Never alter the regulator in any way.
 6. This regulator is equipped with a relief valve. If you hear a loud “ hissing or “popping” sound coming from the regulator, close the cylinder valve or gas inlet and contact your dealer.
 7. Inspect gas cylinder valve for leaks before putting them into service. If a leak is found around the cylinder valve stem, close the valve, place the cylinder outdoors in a safe area and inform your gas supplier immediately.
 8. Never allow the temperature of the cylinder contents to exceed 125° F. DO NOT store cylinders near sources of heat or flame.
 9. NO SMOKING - Remove matches, cigarettes, lighters and lighters fluids from the area.
- NOTE: At the end of each day, turn all cylinder valves clockwise to shut off the gas supply.**

Connecting the Regulator to a Cylinder

1. Secure the tank with tank restraints.
2. Open and close the cylinder valve to purge it of foreign materials. See your oxygen and nitrous oxide dealer for more detailed information.
3. Attach the regulator to the cylinder valve and tighten the inlet connection with a wrench.

Pressurizing the Regulator



WARNING

Never stand in front of or behind a regulator when opening a cylinder valve.

Always stand so the cylinder valve is between you and the regulator. Always open the cylinder valve slowly.

1. Slowly and carefully turn the cylinder valve counter-clockwise until you hear the oxygen or nitrous oxide begin to flow into the regulator. Wait about 10 seconds and turn the cylinder valve fully open.

Removing the Regulator from the Cylinder



WARNING

Do not attempt to move the cylinder unless the regulator has been removed and the available cylinder cap is in place.

1. Turn the cylinder valve clockwise. The tank is now shut off.
2. Using a wrench, unscrew the regulator from the tank. A small amount of gas will escape from the threaded connection, DO NOT be alarmed, this is normal.

Adjusting the Single Stage Oxygen Regulator

With the inlet pressure between 2200 and 1400 psi and while no gas is flowing in the system, the oxygen manifold gauge should point to the right edge of the green band on the gauge. With the inlet pressure less than 1400 psi and while no gas is flowing in the system, the oxygen manifold gauge pointer should split the 5's at 55 psi. If not, loosen the locking acorn nut on the regulator. Then, while no gas is flowing in the system, adjust the hex screw to the following pressure and tighten the lock nut.

INLET PRESS:

2200-1400 psi
Less than 1400 psi

ADJUST TO:

Right edge of green band.
55 psi, split 5's with pointer.

Adjusting the Single Stage Nitrous Oxide Regulator

With the inlet pressure between 800 and 100 psi and while no gas is flowing in the system, the nitrous oxide manifold gauge should point to the right edge of the green band on the gauge. If not, loosen the locking acorn nut on the regulator. Then, while not gas is flowing in the system, adjust the hex screw to the following pressure and tighten the lock nut.

INLET PRESS:

800 - 100 psi

ADJUST TO:

Right edge of green band.
