DO NOT MIX OXYGEN AND OIL!



SAFETY FOCUS

DO's & DON'TS FOR GAS REGULATORS

GENERAL PRECAUTIONS

Oxygen under pressure and hydrocarbons (oil and grease) can react violently, resulting in explosions, fire, and injury to personnel and damage to property. Never allow oil or grease to come into contact with oxygen under pressure. Even a small amount of hydrocarbon can be hazardous in the presence of high oxygen concentrations. In fact, any organic matter in contact with oxygen under pressure could have a violent reaction.

INSTALLATION PRECAUTIONS

DO	Maintain the pressure element assembly and
DO	connection free from dirt and any grease or grime.
	Follow the manufacturer's instruction manual for the
DO	correct pressure ranges to be used and for proper care
	and storage.

DO Use the proper size wrench to secure the gauge to the regulator.

Use only the thread sealant recommended by the

manufacturer.

Leak test the gas outlet connection using soap solution

prior to use.

Touch Oxygen regulators or cylinder heads with hands

or gloves that are contaminated with oil grease, grime or any organic material. An explosion could result.

DO NOTInstall a low pressure gauge into the high-pressure port on a regulator. Always double check.

Use gauges designed for a specific gas for a different

DO NOT gas. E.G. Never use an oxygen gauge for acetylene. From one gas application to another.

DO NOT Exchange gauges from one regulator to another.

Remove the restrictor installed in the gauge connection.

DO NOT The restrictor limits gas flow and aids in limiting

temperature rise due to adiabatic compression.
Use or handle gas regulators unless you are authorized

DO NOT and qualified to do so.

OPERATING PRECAUTIONS

Gauges can fail during operation and the energy contained in the compressed gases can produce violent effects should the pressure element assembly rupture.

Always apply cylinder pressure slowly. The gas may heat up due to compression and ignite. This is called adiabatic compression.

DO

Stand with the cylinder between you and the regulator when turning on the gas cylinder. This will reduce the possibility of injury from flying parts should pressure element assembly rupture.

Use good judgment and common sense. Know the hazards of the materials you work with.

DO NOT Use clamps or substitute materials that are not approved by the regulator manufacturer.



Example of oil in contact with oxygen under pressure. This worker, employed by a construction contractor in Nigeria, had oil on his left hand while adjusting the pressure on an oxygen regulator. There was an oxygen leak at the hose clamp.



