

Use  
Oxy-fuel gas  
1-30-2012

**(8) 437-003-3350 Use of Oxygen and Fuel Gas Cylinders**

**(a) When using cylinders you must:**

**(A) Close cylinder valves**

**(i) Before moving cylinders.** 253(b)(5)(ii)(F)

**(ii) When work is finished.** 253(b)(5)(ii)(G)

**lii) On empty cylinders.** 253(b)(5)(ii)(H)

**(B) Place cylinders far enough away from the actual welding or cutting operation to:** 253(b)(5)(ii)(I)

**(i) Ensure sparks, hot slag, or flame will not reach them, or** 253(b)(5)(ii)(I)

**(ii) Protect them with fire resistant shields.** 253(b)(5)(ii)(I)

**(C) Keep cylinders away from radiators, piping systems, layout tables, etc., that may be used for grounding electric circuits such as for arc welding machines.** 253(b)(5)(ii)(J)

**(D) Keep keys, handles or nonadjustable wrenches on valve stems of cylinders not having fixed hand wheel, while these cylinders are in service.** 253(b)(5)(ii)(E)

**(E) Keep one key or handle on valve stems for each in service manifold in multiple cylinder installations.** 253(b)(5)(ii)(E)

**(F) Allow each gas to flow through its respective hose for a few seconds to purge the hose of any mixture of gases before using a torch assembly that has been shutdown for an interval of one half hour or more.** 0292(1)

**(G) Follow the apparatus manufacturer's operating sequence when lighting, adjusting, and extinguishing torch flames.** 0292(2)

**(H) Close the torch handle valves on oxygen and/or fuel gas when the:**

**(i) Process is stopped for less than 30 minutes and.**

**(ii) Welding and cutting equipment is attended.**

**(I) Completely shut down oxygen cylinder, fuel gas cylinder and system manifold valves : 0290(3)**

**(i) For periods that are 30 minutes or longer.**

**(ii) At end of shift.**

**(iii) When equipment is unattended.**

**(J) Completely shut down a torch system in the following order:**

**(i) Close and drain the oxygen system before the closing and draining the fuel gas system .**

**(ii) Open the torch valves momentarily after closing the cylinder valves to release all gas pressure from the hoses and regulators, then close the torch valves. 437-002-0290(3)**

**(iii) Turn the regulator pressure adjusting screws counter clockwise to release all spring pressure. 437-002-0290(3)**

**(iv) Visually check the low pressure delivery gauge and high pressure supply gauge to ensure there is no pressure remaining in the system.**

**(b) When using cylinders you must not:**

**(A) Place a cylinder where it might become part of an electric circuit. 253(b)(5)(ii)(J)**

**(B) Tap an electrode against a cylinder to strike an arc. 253(b)(5)(ii)(J)**

**(C) Used a cylinder as a roller or support. 253(b)(5)(ii)(K)**

**(D) Attempt to mix gases in a cylinder unless you are the gas supplier. 253(b)(5)(ii)(M)**

**(E) Refill a cylinder unless you are the owner of the cylinder or a person authorized by the owner. 253(b)(5)(ii)(M)**

**(F) Use a cylinder's contents for purposes other than those intended by the supplier. 253(b)(5)(ii)(M)**

**(G) Tamper with safety devices in cylinders or valves. : 253(b)(5)(ii)(N)**

**(H) Drop or handle cylinders roughly. 253(b)(5)(ii)(O)**

**J) Put down a lighted torch unless the torch or torch assembly is placed in a holder and secured from unintended movement.** 437-002-0292(3)

**(K) Use the regulator adjusting screw as a shut-off mechanism.** 437-002-0290(3)