

**Use  
Oxy-fuel gas  
Welding and cutting  
4-22-13**

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

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

**(A)** Perform a drop test at the beginning of each shift to verify no leaks exist.

**(B)** Close cylinder valves

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

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

**(iii)** When cylinders are empty. 253(b)(5)(ii)(H)

**(C)** 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)

**(D)** 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)

**(E)** 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) & 253(b)(5)(ii)(L)

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

**(G)** 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)

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

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

**(i)** Process is stopped for less than 30 minutes and 437-002-0290(3)(d)

**(ii)** Welding and cutting equipment is attended. 437-002-0290(3)(d)

**(J)** Completely shut down oxygen cylinder, fuel gas cylinder and system manifold valves: 437-002-0290(3)

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

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

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

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

**(i)** Close and drain the oxygen system before the closing and draining of 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)** Use 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 on cylinders or valves. : 253(b)(5)(ii)(N)

- (H)** Drop or handle cylinders roughly. 253(b)(5)(ii)(O)
- (I)** 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)
- (J)** Use the regulator adjusting screw as a shut-off mechanism. 437-002-0290(3)
- (K)** Place anything on top of any cylinder when in use which may damage the safety device or interfere with the quick closing of the valve. 253(b)(5)(iii)(E)
- (L)** Take cylinders containing oxygen or acetylene or other fuel gas into confined spaces. 1926.350(b)(4)