

Pressure Reducing Regulators
Oxy-fuel gas
Welding and cutting
3-21-12

(9) Pressure Reducing Regulators

(a) When using pressure reducing regulators you must:

(A) Use them with cylinder and piping outlets to ensure suitable working pressure for fuel gas and oxygen-fuel gas applications.

(B) Use them for the gas and pressures for which they are intended. 253(e)(6)(i)

(C) Ensure that regulator inlet connections are marked with an identifying CGA number.

NOTE: The CGA numbers identify the cylinder valve and gas service for which an inlet connection is designed.

(D) ~~Ensure that regulator inlet connections comply with Regulator Connection Standards, 1958, Compressed Gas Association~~ 253(e)(6)(i) ~~Ensure that inlet connections of regulators intended for attachment to gas storage cylinders comply with the requirements of CGA V-1, Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections and CGA V-7, Standard Method of Determining Cylinder Valve Outlet Connections for Industrial Gas Mixtures. (CGA E-4 2010)~~

Comment [cnw1]: Or is it the CGA v-1 or CGAv-4 2010

(E) Ensure that regulators or parts of regulators, including gauges, are repaired only by skilled mechanics who have been properly instructed. 253(e)(6)(ii)

(F) Use oxygen regulators that are marked in red with "USE NO OIL." 253(e)(6)(iii)

(G) Use acetylene regulator with a delivery pressure gauge that graphically indicates the maximum 15 psig. working pressure.

(H) Inspect regulator union nuts and connections to detect faulty seats before the regulators are attached to the cylinder valves. 253(e)(6)(iv)

(I) Fully turn the regulator pressure-adjusting screw counter clockwise before slowly opening the cylinder valve. 437-002-0294(1)

(J) Keep pressure-reducing regulators in good repair. 437-002-0294(2)

(K) Replace cracked, broken or otherwise defective parts (including gauge glasses). 437-002-0294(2)

(b)When using pressure reducing regulators you must not:

(A) Use the regulator adjusting screw as a “shut-off” mechanism.

(B) Use oxygen and/or fuel gases from cylinders, piping, or manifolds through torches or other devices equipped with shutoff valves without using a pressure reducing regulator. 253(b)(iii)(I)