

**Hose And Hose Connections**  
**New Rules**  
**4-29-11**

(--) You must:

(--) Use hose for oxy-fuel gas service that complies with the Specification for Rubber Welding Hose, 1958, Compressed Gas Association and Rubber Manufacturers Association. 253(e)(5)(i)

(--) Use fuel gas and oxygen hoses that are easily distinguishable from each other. 350(f)(1)

NOTE: The contrast may be made by different colors or by surface characteristics readily distinguishable by the sense of touch.

(--) Use "Grade T" hose for most fuel gases including acetylene.

NOTE: "Grade T" hose is designed for universal use. "Grades R or RM" hoses are only design for use with acetylene."

(--) Use "Grade R or RM" hose only for acetylene.

(--) Use oil free air or an oil free inert gas to test hoses. 253(e)(5)(iv)

(--) Keep hoses and couplings (connectors) free from oily or greasy substances 253(b)(5)(i)

(--) Prior to use at the beginning of each working shift, visually inspect each hose for leaks, burns, worn places, bulges, cracks, crimps, multiple splices, cuts, damaged or worn fittings and other defects rendering it unfit for service. 253(e)(5)(v) & 350(f)(3)

(--) Test hose to twice the normal pressure to which it is subject, but in no case less than 300 psi. when it: 350(f)(4)

(--) Has been subject to flashback, or 350(f)(4)

(--) Shows evidence of severe wear or damage. 350(f)(4)

(--) Repair or replace hoses that have defects rendering them unfit for service. 253(e)(5)(v) & **350(f)(3)**

(--) Protect hoses from damage by physical hazards, hot objects, or kinking.  
437-002-0295

(--) Keep hoses, cables, and other equipment clear of passageways, ladders and stairs. 350(f)(7)

***(--)*** Pull out and visually check reel hoses at least once per month.

***(--)*** Visually inspect the use part of oxygen and fuel gas hoses for cuts, burns, oil, and grease before storing the hose on hose reels or carts.

**(--)** Use manifold hose connections, including both ends of the supply hose that leads to the manifold that can not be interchanged between oxygen and fuel gas manifold and supply header connection. 350(e)(3)

**(--)** Keep hose connections free of grease and oil. 350(e)(3)

**(--)** Cap manifold and header hose connections when not in used. 350(e)(4)

**(--)** You must not:

***(--)*** Route hoses in such a manner that severely bends the hose at the hose coupling(connector).

***(--)*** Pull or drag welding equipment with the hose assembly.

***(--)*** Drag or rest hoses on material that are not fully cooled.

***(--)*** Drag hoses across potential puncture or abrading points.

***(--)*** Handle oxygen hoses with oily hands or gloves.

***(--)*** Hang a torch from any hose.

**(--)** Cover more than 4 inches out of 12 inches when parallel sections of oxygen and fuel gas hose are taped together. 253(e)(5)(ii)

**(--)** Use a single hose having more than one gas passage.350(f)(1)

**(--)** Repair damaged hoses with tape. 437-002-0295

**(--)** Use defective hose, or hose in doubtful condition. 350(f)(4)

## Connections

**(--)** You must

**(--)** Use hose connections that comply with the **Standard Hose Connection Specifications, 1957, Compressed Gas Association.** 253(e)(5)(iii)

(--) Clamp or securely fasten hose connections in a manner that will withstand, without leakage at twice the pressure to which they are normally subjected in service and in no case less than a pressure of 300psi. 253(e)(5)(iv)

(--) Use oxygen and fuel gas connection fittings that are different in dimension and prevent the intermixing of connections, or 437-002-0296

(--) Mark hose connections to identify the oxygen and fuel gas hose. 437-002-0296

(--) Use hose couplings that cannot be unlocked or disconnected by means of a straight pull without rotary motion. 350(f)(5)

(--) Ventilate boxes used for the storage of gas hose. 350(f)(6)

**(--) You must not:**

**(--) Use adaptors that permit the interchange of manifold hose connections.**  
350(e)(3)