

Compressed Gas Cylinders

Compressed gases are widely used in municipal operations. Most commonly found are Oxygen and Acetylene (or MAPP gas), Liquid Propane, Carbon Dioxide and Chlorine. Other gases may be used in laboratories or for special operations. Handling of compressed gases may be considered MORE hazardous than the handling of liquid and solid materials because of the following properties: high pressure, ease of diffusion, low boiling points, low ignition points for flammable gases and in some cases, lack of visual or odor detection of leaking hazardous gases. A falling cylinder may shear off its valve causing release of high-pressure gas and resulting in an explosion or the rapid projection of the cylinder. In short, when cylinders are damaged or mishandled they may explode, release their hazardous contents or become dangerous projectiles.

Never!	Always!		
☐ Never carry or lift a cylinder by the valve.☐ Never roll a cylinder to move it or use any cylinder (Empty	 ☐ Store cylinder in level, dry, fire resistant areas that are well ventilated. Protect cylinders from contact with the ground, ice, snow, water, salt, corrosion and high temperature. ☐ Secure stored gas cylinders in the upright position with the protective cap in place. Keep away from areas where 		
or full) as a roller.			
Never leave a cylinder unsecured.			
Never force improper attachments on to the wrong cylinder.	moving objects can strike or fall on them.		
☐ Never use oil or grease as a lubricant on valves or attachments of oxygen cylinders	Store oxygen cylinders must be separated from flammable gas cylinders (such as Acetylene) by at least 20 ft. or by		
Never fasten cylinders to a worktable or structures where they could become part of an electrical circuit. Do not use a	a non-combustible barrier at lest 5 feet high having a fire resistance rating of at least 30 minutes.		
cylinder as an electrical ground connection. Never strike an arc on a cylinder.			
☐ Never use a flame or boiling water to thaw a frozen valve.	distances by rolling them on their bottom edge.		
Never stand directly in front of the valve outlet or regulators when opening or adjusting.	Store cylinders away from sources of ignition or excessive heat. Cylinders must be kept far enough away from the actual welding or cutting operation so that sparks, hot slag		
Never transport compressed gasses in closed vehicles. Cylinders must be secure in place during transporting in an	or flame will not reach them. When this is impractical, fire resistant shield should be used.		
open or well-ventilated vehicle. Do not transport a cylinder with a regulator installed, the valve cap must be in place.	 □ Before making connection to a cylinder valve outlet, open (crack) the valve slightly and close immediately (This is intended to clear the valve of dust or dirt that may enter the regulator). Stand to one side, not in front of it. □ Mark empty cylinders empty or MT and store away from ful cylinders. Store with the valve closed and protective cap in 		
Never "crack" a valve or purge hose lines on a fuel gas cylinder near an ignition source. Never "crack" Hydrogen			
cylinders since the release of compressed Hydrogen may ignite by itself.			
	place. Handle and store all cylinders as if they were full		

Compressed Gas Cylinders Sign In Sheet



Municipality					
	Name			Date	
					
				 	
					
				 	
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