

COMPRESSED GAS CYLINDERS



How to safely handle
**Compressed
Gas Cylinders**



- Cylinders must always be stored in well ventilated spaces
- Preferably roofed and away from heat
- Away from combustible substances
- Oxygen and flammable gases should be at least 4 meters apart

STOP AND THINK...

SAFETY & HEALTH

COMPRESSED GAS CYLINDERS



How to safely handle
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Gas Cylinders**



- Cylinders should be individually chained to prevent it from toppling over

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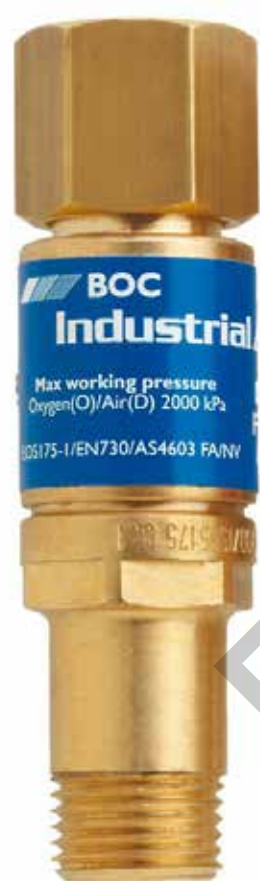
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COMPRESSED GAS CYLINDERS



Safety Devices

- Approved Hose (specification)
- Flashback Arrestor



Torch / Regulator
Mounted
Arrestor

- Pressure
Regulator



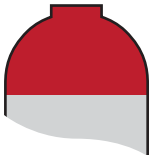



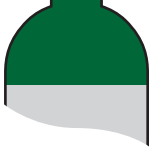

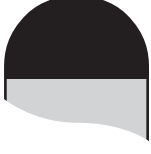

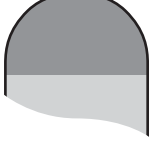



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Colour Codes

	Acetylene		Maroon
	Oxygen		White
	Argon		Dark Green
	Nitrogen		Black
	Carbon Dioxide		Grey
	Helium		Brown



In an emergency and when cylinder label is not clearly visible...

colour codes will quickly help you identify the main chemical hazard of the gas.

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Responding to **cylinder leaks**

- Remove cylinders containing *flammable, inert, or oxidizing gas* to an isolated area, away from possible ignition sources.
- If the gas is *corrosive*, remove cylinder to an isolated and ventilated area.
- For *toxic gas*, the cylinder should be moved to an isolated and well-ventilated area. Evacuation from facility may be necessary.

Use soapy water to detect gas leak from a cylinder.



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Compressed gas piping



Do not use PVC pipes for transferring compressed gases aboveground.



Copper piping shall not be used for acetylene.



Do not use cast iron pipe for chlorine.



Distribution lines and their outlets need to be clearly labeled.



Inspect piping systems regularly.



Pay attention to fittings and look for possible cracks.

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Hoses and connections



Examine hoses regularly for leaks, set up an inspection schedule.



Keep hoses free from kinks and away from high traffic areas.



Repair leaks promptly and properly.



Store hoses in a cool place, and protect them from hot objects, and sparks.



Do not use unnecessarily long hoses.



Do not use a single hose having more than one gas passage.

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