

PURPOSE

To ensure safe practices, while using gases bottles, are met to prevent injury or fire.

APPLICATION

All faculties, service divisions, clubs, student related associations and contractors who at a University of Auckland campus, a University of Auckland controlled entity or whilst undertaking any University-sanctioned activity shall follow this guideline.

GUIDELINES

1. General Precautions for Use of Compressed Gases

- 1.1. Never drop a cylinder or allow cylinders to strike each other violently.
- 1.2. Avoid dragging, rolling or sliding cylinders.
- 1.3. Transport and secure to a trolley if the cylinder needs to be carried any distance.
- 1.4. Never tamper with safety devices in valves or cylinders.
- 1.5. Cylinder valves should be opened slowly to prevent damage to the regulator, or in some cases, compression heating within the regulator.
- 1.6. Never allow cylinders to reach a temperature greater than 50 degrees.
- 1.7. Never use grease on threads which may come in contact with any gases.
- 1.8. Valves should open with hand. If the valve fails to open return the cylinder as faulty. Do not use excessive leverage or hammers to open the valve.
- 1.9. Do not position cylinders where they may become part of an electrical circuit.
- 1.10. Never leave a cylinder unattended in a public place.
- 1.11. Always turn a cylinder off when not in use.
- 1.12. Faulty cylinders must be returned immediately.
- 1.13. Store cylinders in a secure ventilated area protected from the weather elements & sources of ignition.



LPG Bottle Valve

2. General Instructions for Hooking Up a Cylinder

Preparation for Use

- 2.1. Cylinder should be free of oil, grease or other combustibles.
- 2.2. Confirm the valve is off.
- 2.3. Remove valve cover.
- 2.4. Confirm cylinder valve matches the regulator.
- 2.5. Refer to manufacturers instruction manual for set up & operating



LPG Regulator

Cylinder hook-up

- 2.6. Ensure the connection on the manifold or regulator is clean.
- 2.7. Ensure that the correct regulator is selected – cylinders containing flammable gases have a different thread to prevent incorrect regulator being attached.
- 2.8. Attach regulator using only reasonable force to tighten and ensure regulator is closed.
- 2.9. The cylinder valve can now be opened SLOWLY.
- 2.10. Open the valve fully and then close 1/4 turn to enable subsequent users to determine open or closed.

After Use

- 2.11. Cylinder valves should always be closed after use.
- 2.12. Use only sufficient force to close cylinder valves.
- 2.13. Ensure valve cover is refitted to the cylinder.
- 2.14. Never leave an empty cylinder connected to an appliance.

3. Leak Detection

- 3.1. Locate leaks by brushing areas with a soapy water mix to check for leaks. You should see bubbles if there is a leak. Verify by closing the valve on the cylinder and note if the bubbles continue.
- 3.2. Remedy - tightening connection between the regulator/hose and the valve.
- 3.3. Never use sealing or jointing compounds to cure leaks.
- 3.4. NEVER USE A MATCH.