

Safe Use & Handling of Compressed Gas Cylinders

1 Storage

- Keep cylinders upright in a well-ventilated area, away from heat, sparks, and electricity
- Secure cylinders to the cylinder bracket with metal chains
- Make sure cylinders are properly tagged with barcodes, cylinder status, and the next hydraulic test date
- **Do NOT** store flammable and oxidizing gas close together

2 Use of Regulators

- Fitted with appropriate type and rating of regulators (seek advice from Center of Laboratories if needed)
- **Do NOT** switch regulators between different cylinders
- **Do NOT** force the connections of regulators

3 Safety Measures

- Install flashback arrestors for flammable and oxidizing gas cylinders
- Conduct a leak test prior to use
- Ensure cylinders are in good condition and tested within 5 years for toxic and/or flammable gases, 10 years for inert gases

4 Transportation

- Chain cylinders on a trolley for transportation
- Wear personal protective equipment (safety shoes, safety glasses, gloves) during transportation

5 Emergency

- Identify leaking gases and turn off the main valve if it is safe to do so, otherwise evacuate everyone in the affected area and contact security control center (2358 8999)

