

Porton Science Park

Gas Store Safety Advice – May 2023

For Operators of Compressed Gas Cylinders in the Gas Store

Quick Tips

The user of cylinder gas supply from the gas store and into the lab should carry out the following weekly checks:

- a) visually, equipment is in good order, is being correctly used and all the required equipment is fitted.
 - b) manifold, framework and chains are in good condition.
 - c) pigtails and flexible hoses are not corroded or damaged.
 - d) valves (in the gas store and in labs) shut off and open correctly.
 - e) regulators are identified as being suitable for the gas and pressures and are not damaged.
 - f) the system is operating normally, i.e. report to your contractor and to PSP's Site Manager if the system is using more gas than normal and/or if there is an unusual drop in pressure or any indication of a malfunction or leak.
- The gas store's O₂ depletion monitor is also designed to detect and alert for this.
- g) the manifold location is free from oil and combustible materials and the area is not used as a general storeroom.

The Pressure Systems Safety Regulations 2000, SI 2000 NO. 128

This serves as a reminder to all lab operators at PSP of the obligations under the above regulations to also align with PSP's request for receipt of annual maintenance checks for cylinders, their gas supply and all associated equipment (i.e. manifolds and regulators) integral to the support the supply.

The objective of these regulations is to prevent the uncontrolled release of stored pressure energy and they legally require the owner or user of the system to:

- establish the safe operating limits of the system
- have a suitable written scheme drawn up and/or certified by a competent person for the examination at appropriate intervals of pressure vessels, all safety devices and any pipe work which is potentially dangerous
- arrange to have examinations carried out by a competent person at the intervals set down in the scheme
- provide adequate operating instructions to ensure the system is operated within its safe operating limits and emergency instructions
- ensure that the system is properly maintained
- keep adequate records for the system, including maintenance history (the most recent examination should be shared with PSP's Site Manager) and any supplier's records for new or used plant