

SOP-GEN-016 Compressed Gas Cylinders

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1.0 Introduction

TDI-Brooks has put in place procedures for the inspection, use and storage of compressed gas cylinders consistent with the requirements of the Compressed Gas Association Pamphlet P-1-1965.

2.0 Responsibility

It is the responsibility of the user to ensure that the compressed gas cylinders are inspected regularly, stored safely and handled in the manner consistent with the training they have received. Gas cylinder safety training is available as a computer-based training course.

3.0 References

- All compressed gas cylinders will be handled in accordance with OSHA regulations in 29 CFR 1910.101.
- Gas cylinders used in welding/cutting operations will be handled in accordance with 29 CFR 1926.350.
- Compressed Gas Association Pamphlet P-1-1965

4.0 General Cylinder Safety

- Accept only properly identified cylinders and do not rely on color codes.
- Wear safety equipment appropriate for the hazard potential of the gas before beginning work.

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- If a cylinder or valve is noticeably corroded, the vendor should be contacted for instructions.
- A leaking cylinder should be removed and isolated in a well-ventilated safe area. It may be necessary to call in trained emergency response personnel.
- If the leak is at the junction of the cylinder valve and cylinder **DO NOT** try to repair! Instead, contact the supplier.

5.0 Inspection, Storage and Use

- Leave cap on and valve closed when cylinder is not in use.
- Store cylinders upright
- Regulators should only be used for the gas for which they were designed and should not be interchanged.
- Do not force regulator connection fittings.
- Never drag, slide, or roll the cylinder; never transport with the regulator in place; and secure the cylinder to a suitable hand truck or cart during transport.
- Properly secure cylinders in a well-ventilated and protected area away from heat, flames, and the sun.
- Segregate cylinders by hazard classes while in storage.
- Discontinue use of the cylinder when it has at least 25 psi remaining; close valve to prevent air and moisture from entering. Return unused and empty cylinders to the vendor for refill.
- Mark or tag empty cylinders "EMPTY". Separate empty and full cylinders during storage.

6.0 Precautions

- DO NOT purchase more or larger cylinders than necessary.
- DO NOT store flammable gases next to an exit or near oxygen cylinders.
- DO NOT use copper fittings or tubing on acetylene tanks.
- DO NOT use Teflon® tape on cylinder or tube fitting connections, which have metal-to-metal face seals or gasket seals.
- DO NOT permit oil or grease to contact cylinders or their valves, especially cylinders containing oxidizing gases.

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