

Don't turn a cylinder into a rocket

A standard industrial gas cylinder containing app. 9 cubic metres (330 cubic feet) of gas at a pressure of app. 180 bar (2640 psig) can, after a cylinder valve is broken off, become a rocket attaining a speed of several miles per hour in a fraction of a second after the gas begins venting from the broken cylinder connection.

Important precautions

The following precautions should be taken to prevent accidents with cylinders.

1. When storing cylinders, secure them to a wall or vertical support by means of restraining straps or chains.
2. When moving cylinders, use a cylinder cart with a chain restraint in place. Do not drag cylinders.
3. When transporting cylinders, use an open vehicle and secure them.
4. Valve protection caps should be installed on cylinders at all times when not in use.
5. Cylinders should never be dropped, rolled, or carried in a horizontal position as the cylinder valve may be broken off.
6. Cylinders should never be used as rollers for moving equipment.
7. If a cylinder or cylinder valve is leaking, call the Air Products 24-hour Emergency Response number, which is provided on the Safety Data Sheet for respective country.
8. Segregate cylinders in storage as to type of gas and whether empty or full, and maintain a safety distance between cylinders containing oxidizers and cylinders containing flammables. This distance may be defined as legal requirement or as local guideline. For example in US this is legally defined as 6 metres (20 feet).
9. Smoking is prohibited in the vicinity of cylinders containing flammable gases or oxidizers.
10. **NEVER** stick anything into the cylinder cap holes in an attempt to loosen the cap. Use an adjustable strap wrench to remove stuck caps. If the cap is still difficult to remove, attach a tag or label to the cylinder identifying the problem and return the cylinder to the supplier.
11. Wrenches should not be used on valves equipped with a handwheel. If the valve is difficult to operate or faulty, contact your supplier to arrange return of the cylinder.

If the leak is in the user's system, close the cylinder valve, vent the pressure, and purge with an inert gas before attempting repairs.

NOTE: Item 1 does not apply to cylinder charging facilities.

The back of this document can be used as a poster for your cylinder storage area.

Emergency Response System

T 800-523-9374
(Continental U.S. and Puerto Rico)
T +1-610-481-7711 (other locations)
For regional ER telephone numbers, please refer to the local SDS 24 hours a day, 7 days a week for assistance involving Air Products and Chemicals, Inc. products

Technical Information Center

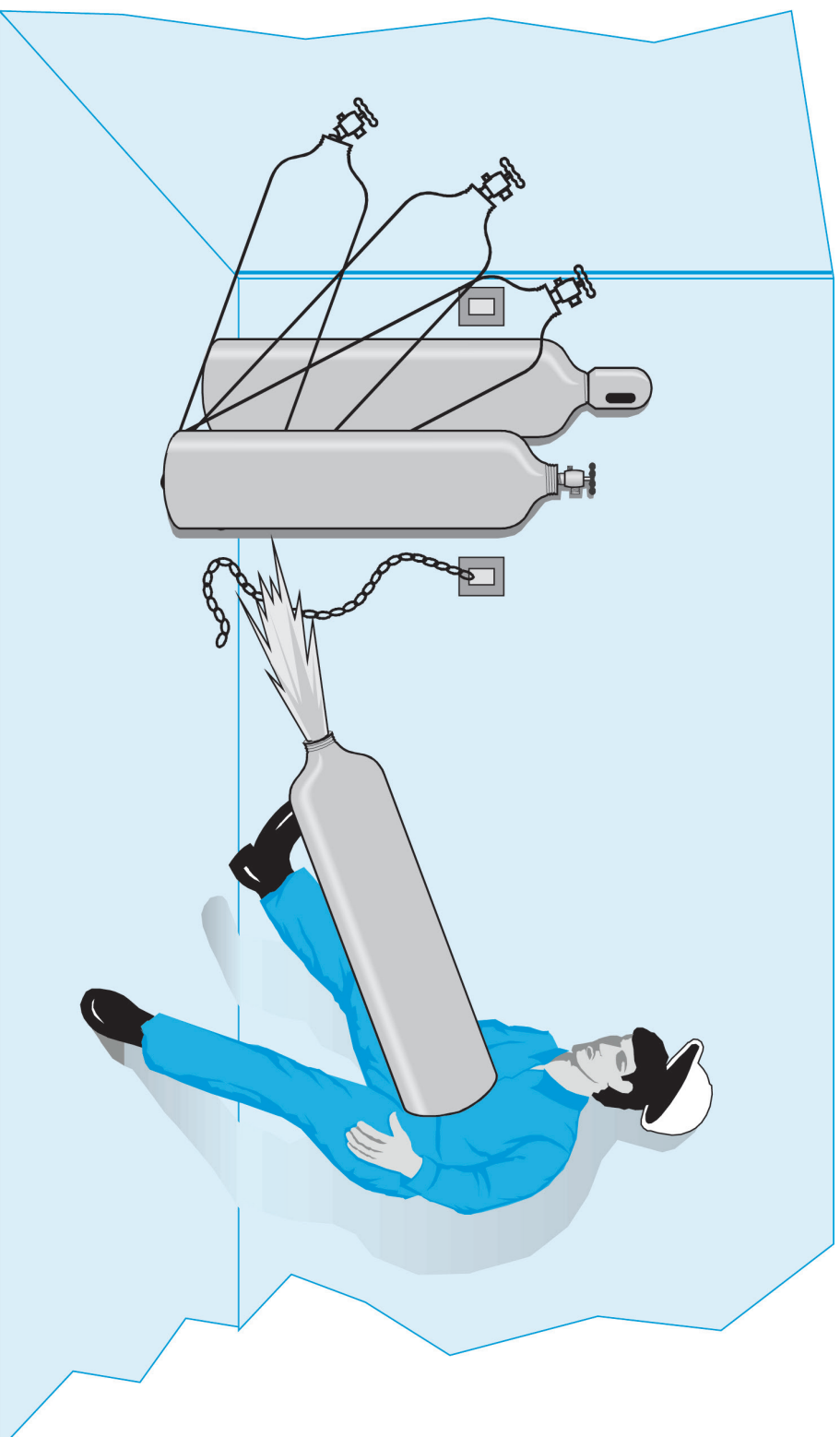
T 800-752-1597 (U.S.)
T +1-610-481-8565 (other locations)
Monday–Friday, 8:00 a.m.–5:00 p.m. EST
F 610-481-8690
gastech@airproducts.com

For more information, please contact us at:

Corporate Headquarters

Air Products and Chemicals, Inc.
1940 Air Products Blvd.
Allentown, PA 18106-5500
T: 610-481-4911

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Secure and cap cylinders when not in use.



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