

CYLINDER REGULATOR

SAFETY & MAINTENANCE INSTRUCTIONS

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So Quick. So Easy

IMPORTANT: THIS MUST BE READ BY ALL OPERATORS BEFORE USE

IMPROPER USE OR FAILURE TO HEED THESE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY

APPLICATION

This regulator is intended to be connected direct to a compressed gas cylinder, or acetylene cylinder or pressurised cylinder for liquid gases. Before using, ensure the markings on regulator name plate correspond with the cylinder gas and filling pressure.

DESCRIPTION

The regulator is designed to safely contain the cylinder pressure and by means of the adjusting knob, allows the gas pressure to be selected and controlled. The selected pressure is automatically maintained, until cylinder is nearly empty, and as the user flow varies. Flowmeter regulators have pressure prefixed by factory. Flow is controlled by knob on flowmeter. Do not try to use this regulator, unless you are a professional user, trained in its proper use. You must understand and comply with Australian safety regulations and practices.

Every time this regulator is attached to a cylinder, the following safety and operation precautions **MUST BE FOLLOWED!** Deviation from the following instructions may result in fire, explosion, damage and/or injury.

CYLINDER CARE

1. Secure cylinder to wall, post or cart, so it will not slip or fall.
2. Inspect the cylinder valve for damaged thread, dirt, dust, oil or grease. Remove dust and dirt with a clean dry cloth. **DO NOT ATTACH THE REGULATOR IF OIL, GREASE OR DAMAGE ARE PRESENT!** Inform your gas supplier of this condition. Oil or grease in the presence of high pressure oxygen is explosive.
3. Crack open the cylinder valve for an instant and close quickly. This will blow out any foreign matter that may be inside valve port. Do this only in a well-ventilated area, away from any flame, lighted cigarette or ignition source. Do not stand in front of valve port.

REGULATOR USE

1. Inspect the regulator for damaged threads, dirt, dust, oil or grease. Remove dust and dirt with a clean dry cloth. In particular, inspect condition of the sealing surface on regulator inlet. There should be no flaws or cracks. **DO NOT USE THE REGULATOR IF OIL, GREASE OR DAMAGE IS PRESENT!**
2. Only try to connect regulator to cylinder valve, if the regulator max inlet pressure (marked on regulator) is equal to or higher than the gas cylinder max fill pressure.
3. Attach the regulator to the cylinder valve, and tighten securely with the correct spanner only. All fuel gas connections are left-hand threaded and can be recognised by a groove on the hexagon nut.
4. Before opening the cylinder valve, unscrew the regulator adjusting knob anticlockwise until slack.
5. Stand to the side of the regulator (never stand in front or behind a regulator) and carefully and slowly open the cylinder until the cylinder pressure is indicated on the high pressure gauge. On acetylene cylinder valves, never open more than one (1) complete turn unless otherwise indicated on special decal affixed to the cylinder shoulder. All other cylinder valves should be opened completely to seal the valve packing.
6. Connect and tighten firmly the outlet hose and downstream equipment. Close the valve on that equipment. Read and understand the instructions for that equipment, before use.
7. Turn the adjusting knob clockwise until the desired delivery pressure (or flow if it is a flow-gauge or flowmeter regulator) registers
8. To check for leaks, close the cylinder valve and loosen the pressure adjusting knob or "T" screw one turn anticlockwise. If the high pressure gauge reading drops, there

is a leak in the cylinder valve, inlet fitting or high pressure gauge. If the flow pressure gauge reading drops, there is a leak in the hose, fitting, low pressure gauge or other downstream equipment. Check for leaks using an approved leak detector solution. Never use a flame. If the high pressure gauge drops and at the same time the low pressure gauge rises there is a leak in the regulator seat. The regulator must be repaired by an authorized repairer or returned to the factory.

9. When you have finished using the equipment, close the cylinder valve, then open the valve on the downstream equipment to allow all pressure to drain from the regulator. Do this only in a well-ventilated area, away from flame, lighted cigarette or ignition source. Close the valve on the equipment and then release all tension on the regulator pressure adjusting knob by turning anticlockwise until slack. Close downstream equipment valve.
10. When the cylinder is not in use, keep the cylinder valve closed at all times.
11. Read flowmeter at centre of floating ball, with flowmeter in vertical position.

IMPORTANT ADVICE

The regulator should not be modified.

Use only cylinders in vertical position (do not lay them down). Before moving a cylinder, close cylinder valve and remove regulator. Do not use the regulator as a lever, to move a cylinder. Do not hang or suspend anything from a regulator (examples are clothing, torch or coiled hose) excepting the equipment for which it is intended, at the outlet connection.

Only use the regulator for the gas and maximum inlet pressure intended. This is clearly shown on the regulator name plate. Never use acetylene at a working pressure of more than 1.5 bar (150kPa or 22psl).

Regulators in continuous service with large flows may freeze, therefore use of a heater is recommended. Do not use flames to thaw regulators. If the regulator freezes, use cloth soaked in hot water.

Do not use pipeline regulators on cylinders. They are designed to accept low inlet pressure.

If a safety valve is fitted, it is designed to protect the regulator from over-pressure. It is not designed to protect equipment downstream from the regulator.

OXYGEN WARNING

When connecting to an oxygen cylinder, remember: Pure oxygen burns vigorously with any flammable material or gas. Never use oxygen to blow-off work piece, or to dust clothing. Never oil oxygen equipment. Store the regulator in a clean oil-free place when not in use. Do not use the regulator if oil or grease is present.

Follow our instructions "Regulator Use"

Never use an air regulator on oxygen cylinders (or vice versa) as air may contain oil traces which can contaminate the regulator, so may be highly dangerous if used in oxygen service.

MAINTENANCE

Regulator should be checked and maintained as specified in AS4839

When not in use, store in a clean, safe place. Gauge lenses are made of polycarbonate, clean only with soapy water, then wipe dry - do not use solvents.

For flowmeter regulators use only a dry cloth to clean outer tube. Do not use solvents as these weaken the tube. Replace outer tube if it shows any sign of external damage.

Repairs should only be undertaken by qualified repairers and genuine parts should always be used.