

## REG/MO.V2, REG/MT.V2

Thank you for purchasing a Sealey Product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

### 1. SAFETY INSTRUCTIONS

Read the following instructions carefully before using the regulator, and keep them for future reference. The instructions provide all the information necessary for correct use of the regulator, to avoid damage and danger.

SEALEY will not be responsible for any damage occurring due to incorrect use of the regulator, or to modifications made to it. This gas regulator is a delicate piece of workshop equipment. Failure to observe the following safety points will cause damage to the unit and will invalidate your warranty.

- ✓ Use regulator only for gas intended.
- ✓ Use to designed pressure.
- ✓ Check for damage and leaks at frequent intervals.
- X **DO NOT** knock or jolt regulator.
- X **DO NOT** use a regulator showing any signs of damage.
- X **DO NOT** allow cylinders to become heated.
- X **DO NOT** use pressure gauges that are damaged, not smooth in operation or not zeroing.
- X **DO NOT** overtighten adjusting knob as this will damage diaphragm and void warranty.
- X **DO NOT** oil the regulator.
- WARNING!** Incorrect use of the regulator can cause serious damage. Users must be trained by specialist engineers.
- WARNING!** The regulator must be treated as a precision instrument. Protect it from accidental knocks, dust, oil and other sources of dirt.
- WARNING!** Do not use the regulator if it is not in perfect working condition
- WARNING!** When you draw gas, the cylinder must be placed upright and protected from falling.

### 2. INTRODUCTION & SPECIFICATION

**2.1** Top quality regulators made to EN ISO 2503, manufactured from only the highest quality materials and machined almost entirely automatically to fine tolerances. With correct use they will give reliable and trouble free service. Suitable for industrial size gas cylinders, these regulators are designed only for use with the shielding gases Carbon Dioxide, Argon or a mixture of these two gases (when used with the correct adaptor). Do not use for any other purpose.

**2.2 SPECIFICATION:**

	REG/MO	REG/MT
Cylinder Type	Industrial	Industrial
Gauge	1	2
Argon/CO <sub>2</sub> Adaptor	Yes	Yes
Safe Working Pressure (Inlet)	230bar	230bar
Max Outlet pressure	4bar	4bar
Max Throughput	10ltr/min	10ltr/min

KEY TO MARKINGS (stamped on regulator bodies)

Relevant standard	'K' = Pressure reducer class	Code for gas type	Serial number	Max inlet pressure
EN ISO 2503	K1	N	170409	230BAR

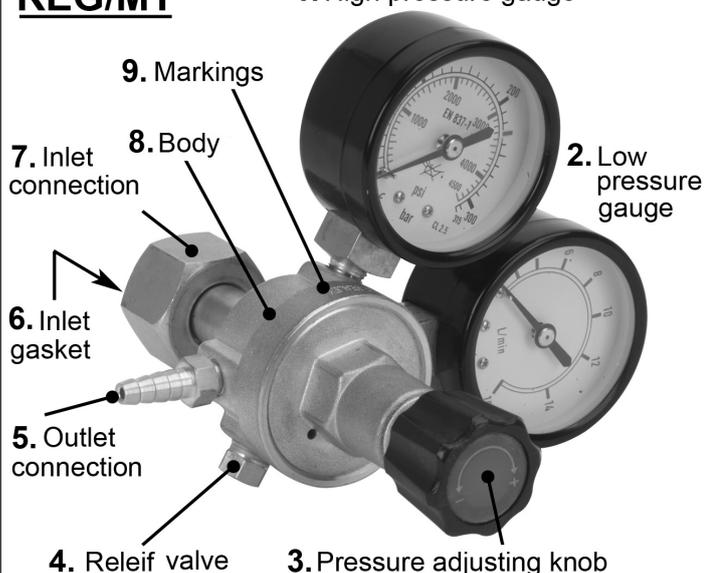
Gas code 'N' = CO<sub>2</sub>, Argon and CO<sub>2</sub>/Argon mix

The function of the regulator is to reduce and control the pressure of a gas. The regulator reduces the cylinder pressure at which the gas is stored, to the pressure needed to use the gas. The pressure reducer has been designed so as to be used only and exclusively with the type of gas and at the pressure which are shown by the markings stamped on the regulator body (refer to the markings key above).

**WARNING!** To try and use the pressure reducer with types of gasses and pressures other than those indicated can be dangerous.

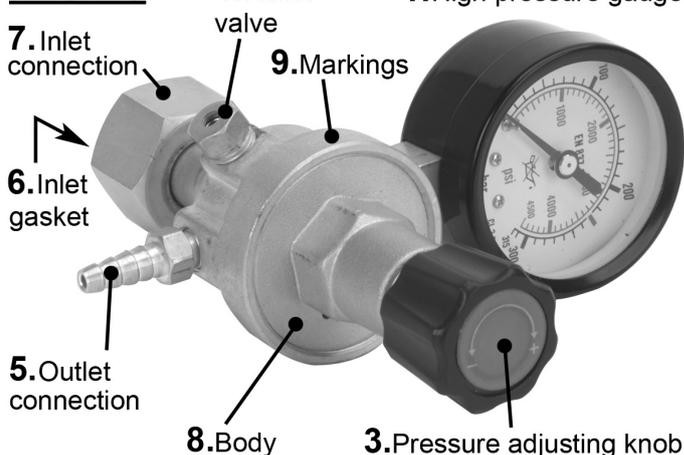
#### REG/MT

#### 1. High pressure gauge



#### REG/MO

#### 1. High pressure gauge



### 3. CONNECTION

#### 3.1 Connection of the regulator.

- 3.1.1 Check that the pressure regulator is correct both for the type of gas and the pressure in the cylinder in use.
- 3.1.2 Turn the pressure adjusting knob (3) anticlockwise to ensure that the regulator valve is closed.
- 3.1.3 Replace the inlet connection gasket if it is damaged or lost.
- 3.1.4 Before screwing on the regulator, briefly open the cylinder valve, then close it, in order to remove any impurity (only for rechargeable bottles).

**WARNING!** During this operation it is dangerous to stand, or place your hands in front of the cylinder valve.

- 3.1.5 Screw the regulator to the cylinder valve and tighten using a suitable spanner. DO NOT over-tighten.

#### 3.2 Hose connection.

- 3.2.1 Attach hose to the hose connection of the outlet connection (5) and secure it with a hose clamp.

**WARNING!** Only use hoses complying with EN 559-ISO3821.

### 4. OPERATION

#### 4.1 Gas supply.

**CAUTION!** Before opening the cylinder valve, check that the regulator is completely closed (turn the pressure adjusting knob (3) anticlockwise).

- 4.1.1 Slowly open the cylinder valve. The high pressure gauge (1) will show you the cylinder pressure.

- 4.1.2 Opening the cylinder valve too quickly may make gauges malfunction.

- 4.1.3 Turn the pressure adjusting knob (3) very slowly clockwise. The low pressure gauge (2) will show the outlet pressure (REG/MT only).

#### 4.2 Regulate pressure.

- 4.2.1 To increase pressure: continue slowly turning the regulator pressure adjusting knob (3) clockwise.

- 4.2.2 To decrease pressure: slowly turn the regulator pressure adjusting knob (3) anticlockwise.

- 4.2.3 Using the pressure adjusting knob (3) it is possible to compensate for eventual pressure drop within the cylinder.

**CAUTION!** Outlet pressure must not be regulated higher than the pressure you need to use.

Outlet pressure must not be regulated higher than the red mark on the low pressure gauge (2). (REG/MT only)

#### 4.3 Closing

- 4.3.1 Close the cylinder valve.

- 4.3.2 Release the gas until the regulator gauges indicate "zero".

- 4.3.3 Turn the pressure adjusting knob (3) anticlockwise until it is completely closed.

- 4.3.4 Remove regulator from cylinder.

### 5. STORAGE/MAINTENANCE

#### 5.1 Storage.

- 5.1.1 The regulator must be treated as a precision instrument.
- 5.1.2 When the regulator is not to be used for long periods, store it in its wrapping or in its box, to prevent contact with dust, oil and other sources of dirt.

#### 5.2 Maintenance.

- 5.2.1 Do not carry out maintenance or repairs, other than the following:

Replacement of bottle seal.

Replacement of gauge.

Replacement of inlet connector.

- 5.2.2 Use only original spare parts and accessories.

- 5.2.3 Do not clean gauge glasses with petrol, solvents or any other kind of detergent.

- 5.2.4 In case of failure return your regulator to the retailer.

#### 5.3 Malfunctioning.

- 5.3.1 In case of malfunction (e.g. leaks in the gauges or in the relief valves) stop use and close the cylinder valve immediately.

- 5.3.2 Unscrew immediately the regulator from the gas bottle.

- 5.3.3 We suggest that the regulator be returned to the supplier to be checked and repaired.

**CAUTION!** Do not use the regulator if there are the following malfunctions:

The gasket (6) is damaged or lost.

The regulator or any of its parts (gauge, inlet connection, outlet connection) are damaged or dirty, oily etc.

There are any leaky connections.

The relief valve adjustment has been modified or the valve leaks.

#### 5.4 Relief valve.(4)

- 5.4.1 Regulators are equipped with an excess pressure valve.

- 5.4.2 In case of malfunctioning, this valve allows the excess gas pressure to escape.

**CAUTION!** Do not modify the calibration of the relief valve.

#### 5.5 Checking the seal.

- 5.5.1 This check must be carried out only in the open air: use either soapy water or a gas leak detector. Do not use flames.

- 5.5.2 Spray detector on the area to be checked.

- 5.5.3 The forming of bubbles or foam is a sign of a leak. If a leak is detected remove regulator from service immediately and have it serviced by an authorised dealer.

Parts support is available for this product. To obtain a parts listing and/or diagram, please log on to [www.sealey.co.uk](http://www.sealey.co.uk), email [sales@sealey.co.uk](mailto:sales@sealey.co.uk) or phone 01284 757500.

**Declaration of Conformity.** We, the sole importer into the UK, declare that the products listed here are in conformity with the following standards and directives. The construction files for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

GAS REGULATORS  
Models: REG/MO, REG/MT  
EN ISO 2503



Signed by Mark Sweetman

11th September 2009

For Jack Sealey Ltd. Sole importer into the UK of Sealey Power Welders.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of this product.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.

**INFORMATION:** For a copy of our catalogue and latest promotions call us on 01284 757525 and leave your full name, address and postcode.



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