



# INSTRUCTIONS FOR:

# MIG GAS REGULATORS

MODEL NO'S: **REG/MM.V2:REG/MMG.V2:REG/MZ.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 Sealey Regulators are 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. This regulator is only suitable 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.

<b>2.2 SPECIFICATION:</b>	<b>REG/MM.V2</b>	<b>REG/MMG.V2</b>	<b>REG/MZ.V2</b>
Mini Refillable/Disposable Cylinder	Yes	Yes	Industrial Gauge
Gauge	No	1	No
Argon/CO <sup>2</sup> Adaptor	No	No	Yes
Safe Working Pressure	110bar	110bar	300bar
Max Throughput	6ltr/min	6ltr/min	10ltr/min

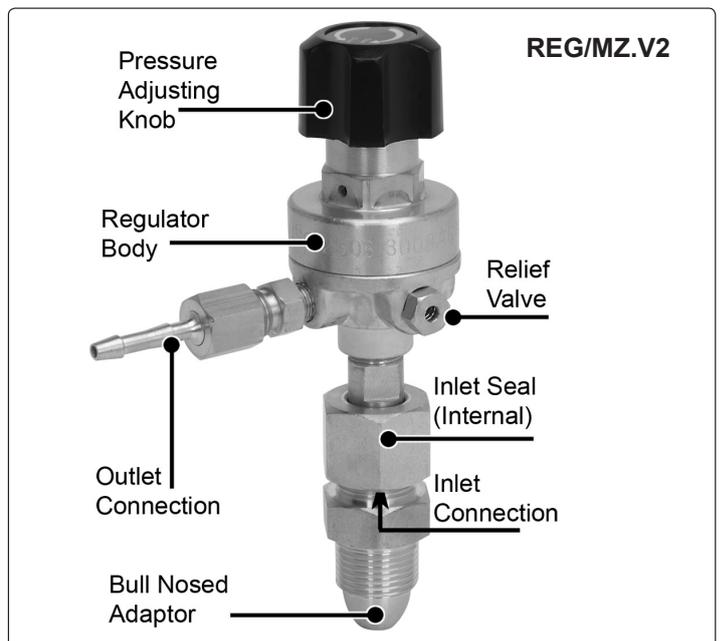
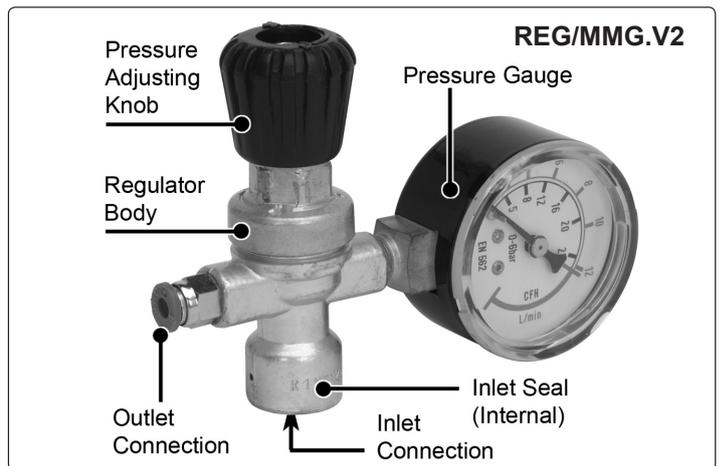
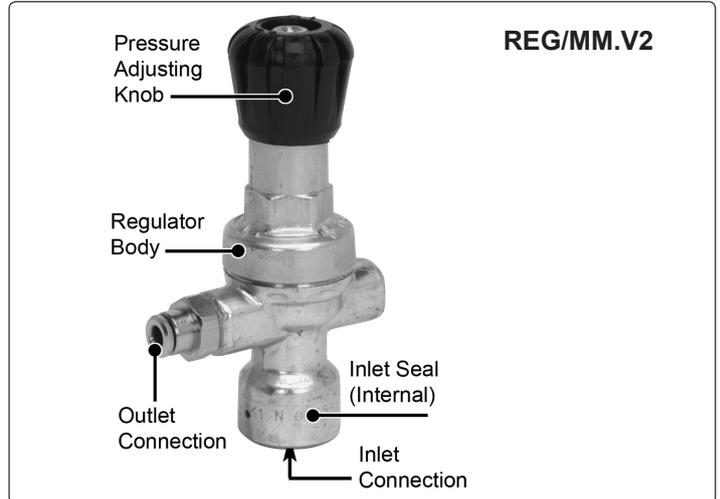
**MARKING KEY: (stamped on body)**

- |                                |                              |
|--------------------------------|------------------------------|
| 1. K - Pressure reducer class  | 3. Manufacturing Lot         |
| 2. ID - Type of gas, see below | 4. P1 - Max. Inlet Pressure  |
|                                | 5. P2 - Max. Outlet Pressure |

<b>2.3 Markings on body:</b>	<b>REG/MM.V2</b>	<b>REG/MMG.V2</b>	<b>REG/MZ.V2</b>
Pressure reducer class	K1	K1	K1
Gas Code	N	N	N
P1 bar (INLET PRESSURE)	110	110	300
P2 bar (OUTLET PRESSURE)	4	4	4

**TYPE OF GAS ..... Code letter**

Acetylene	A	LPG	P
Oxygen	O	MPS	Y
Hydrogen	H	Natural gas	M
Compressed air	D	CO <sup>2</sup> , Nitrogen, Inert gas	N



### 3. CONNECTION

#### 3.1 Mini Refillable/Disposable Cylinder. (REG/MM & REG/MMG)

- 3.1.1 Check that the regulator is correct both for the type of gas and the pressure in the cylinder to be used.
- 3.1.2 Turn the pressure adjusting knob clockwise to ensure that the regulator valve is closed.
- 3.1.3 Replace the inlet connection seal if it is damaged or lost.
- 3.1.4 Screw the regulator to the cylinder valve and tighten.  
DO NOT over-tighten.

#### 3.2 Hose connection.

- 3.2.1 Attach hose to the outlet connection of the regulator by pushing it in as far as it will go.

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

#### 3.3 Connection to Industrial Gas Cylinder. (REG/MZ only)

- 3.3.1 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 any parts of your body in front of the cylinder valve.

- 3.3.2. When using Argon or Argon mixtures, you will need to use the "bull nose adaptor". Fit the bull nose adaptor to the cylinder with a spanner. (If you intend to use CO<sub>2</sub> gas the regulator will fit directly onto the cylinder).

- 3.3.3 Screw the regulator to the bull nose adaptor or directly to the cylinder valve as required and tighten using a suitable spanner.  
DO NOT over-tighten.

#### 3.4 Hose connection.

- 3.4.1 Push the gas supply tube onto the gas outlet nozzle on the regulator and retain it with a suitable clip/clamp.

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

### 4. OPERATION

The function of the regulator is to reduce and control the pressure of a gas. The regulator reduces the pressure at which the gas is stored, to the pressure needed to use the gas. The regulator has been designed so as to be used only and exclusively with the type of gas and at the pressure which is shown by the markings stamped on the regulator body (refer to the markings key earlier in section 2).

**WARNING!** To try and use the regulator with types of gasses and pressures other than those indicated can be dangerous and will invalidate your warranty.

#### 4.1 Operation with Mini Refillable/Disposable Cylinder. (REG/MM & REG/MMG.)

- 4.1.1 To increase pressure and flow slowly turn the regulator pressure adjusting knob anticlockwise.
- 4.1.2 To decrease pressure and flow slowly turn the regulator pressure adjusting knob clockwise.
- 4.1.3 Using the pressure adjusting knob 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.

#### 4.2 Closing

- 4.2.1 Turn the pressure adjusting knob clockwise until it is completely closed.
- 4.2.2 Release the gas until the regulator gauges (if fitted) indicate "zero".
- 4.2.3 Remove regulator from cylinder.

#### 4.3



#### Operation with Industrial Gas Cylinder. (REG/MZ only)

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

- 4.3.1 Slowly open the cylinder valve.

- 4.3.2 To increase pressure and flow: slowly turn the regulator pressure adjusting knob clockwise.

- 4.3.3 To decrease pressure and flow: slowly turn the regulator pressure adjusting knob anticlockwise.

- 4.3.4 Using the pressure adjusting knob it is possible to compensate for eventual pressure drop within the cylinder.

#### 4.4 Closing

- 4.4.1 Close the cylinder valve.

- 4.4.2 Release any gas remaining in the supply hose.

- 4.4.3 Turn the pressure adjusting knob (5) anticlockwise until it is completely closed.

- 4.4.4 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 inlet seal.

Replacement of gauge (if fitted).

- 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 take your regulator back to the supplier.

#### 5.3 Malfunctioning.

- 5.3.1 In case of malfunction (e.g. leaks in the gauges or in the relief valves) stop use and unscrew the regulator immediately from the bottle.

- 5.3.2 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 inlet seal 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.

- 5.4.1 REG/MZ is 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.

**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 latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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