

# GAS REGULATOR OPERATING INSTRUCTIONS



**BOSSWELD**  
RELIABLE WELDING GEAR

[www.bossweld.com.au](http://www.bossweld.com.au)

## EQUIPMENT SPECIFICATIONS AND ASSEMBLY

Bossweld regulators have been manufactured and tested to meet AS 4267. Bossweld regulators are designed to be connected to the gas cylinders (bottles) to deliver precise pressure of gas supplied to the welding and gas equipment. Welding and gas cutting equipment should never have gas directly supplied from bottles. Bossweld regulators are designed to match the flow of gas through the regulator to the demand for gas required by the welding and cutting equipment. Never subject the regulator to inlet pressures greater than the nominated inlet pressure.

The majority of welding accidents are avoidable with increased training and awareness of safety issues. Bossweld recommends you should take the following safety precautions when using gas regulators:

1. Bossweld regulators should only be used with the gas for the intended purpose. Do not experiment with gas or gases.
2. Never test a regulator for leaks with naked flame.
3. Always inspect your Bossweld regulators prior to use, regulators with damaged gauges, in or outlet connections should never be used.
4. Never force any regulator connection that does not fit. Regulator connections can be fully threaded in by hand and then only require a fraction of a turn to achieve a gas tight seal.
5. Never install additional piping or fittings between regulators and the outlet valves of cylinder packs.
6. Never use LPG regulators for Acetylene as the maximum safe working pressure of 150 kPa may be exceeded. Do not handle your Bossweld oxygen regulators, oxygen cylinders, valves or any other equipment with oily or greasy hands or gloves. Oxygen will react with oil and grease in such a manner that will easily result in fire or explosion.
7. Ensure your Bossweld regulators are kept clean. If possible, when your Bossweld regulator is not in use protective covers on the inlet and outlet connections.
8. Flashback arrestors must be fitted to both regulator and torch in and Oxygen/Fuel gas system before use as detailed in AS 4839.
9. Ensure you check the date of manufacture of your Bossweld regulator. In accordance with AS4839 all regulators should be replaced after 5 years.
10. Do not stand in front of your Bossweld regulator when subjecting it to high pressure.
11. Flashback Arrestors must be fitted to both regulators in an Oxygen/ Fuel Gas system before use. See AS4839 for further information.
12. Do not attempt to repair or substitute parts on equipment, particularly the regulators. Special techniques and tools are needed to safely repair oxy-fuel gas welding and cutting apparatus.

## **SAFETY TIPS**

- Ensure the equipment is free from oil and grease.
- Bossweld recommend proper Personal Protective Equipment (PPE) be worn at all times, consult your Occupational Health & Safety officer.
- Ensure that the work environment is well ventilated.
- Make sure the work environment is free combustible material, flammable liquids and heat sources.
- Bossweld pre-set regulators are manufactured, set and tested to AS4267. Never tamper with the settings of your Bossweld regulators, any tampering will void your warranty.
- Pressure relief valves, if fitted, are pre-set when manufactured. Adjusting relief valves is dangerous and will void your warranty.

## **FAULT AND LEAK DETECTION**

- Never use a flame when testing for leaks.
- Check your Bossweld regulators prior to use for any signs of damage or leak tightness.
- If your Bossweld regulator is defective or if a pressure gauge is broken, have it replaced immediately.
- Do not attempt to repair or substitute parts on equipment, particularly the regulators. Special techniques and tools are needed to safely repair oxy-fuel gas welding and cutting apparatus. If repairs are required please return it to your Bossweld distributor or contact Dynaweld.
- Never over tighten or use excessive force to connect gas equipment.
- Always open the cylinder valve slowly and close after use.
- Never stamp names or numbers onto regulators; this may compromise the integrity of the regulator.

## **WARRANTY**

- Bossweld regulators are covered by a limited 3 year warranty.
- Bossweld will not be responsible for damage of any kind to equipment or property resulting from improper use, misapplication or failure to use the product in accordance with the operating instructions and general misuse or abuse.
- Failure to produce proof of date of original purchase may render this warranty null and void.
- The defacement or removal of the serial or production number will render the warranty null and void.
- Should the product be worked on by anyone other than Bossweld's authorised repair agents this warranty will become null and void.
- Contact your Bossweld distributor if the regulator does not function as intended.



P/N: 400212



P/N: 400213



P/N: 400210



P/N: 400205



P/N: 400206



P/N: 400207

**Oxygen**

**Acetylene**

**Argon**



P/N: 400214



P/N: 400209



P/N: 400221



P/N: 400217

**Dual Stage Argon**

**Nitrogen  
(5,500kPa)**

**LPG**

The information contained in this manual is provided to assist the operator in the safe use of a Bossweld Gas Regulator. The ultimate responsibility for the safe use of this and any attached equipment lies solely with the operator, including any requirements of associated Australian Standards.

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